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Service Pack 4.0.0

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1.6 slf4j-jdk14 1.7.24

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1.9 angular-sanitize 1.8.2

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1.10 hazelcast-hibernate3 3.6.5

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1.13 native-lib-loader 2.0.2

1.14 cxf-rt-ws-security 3.3.6

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1.23 jersey-media-json-jackson 2.28

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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 */

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* /opt/ws_local/PERMITS_SQL/1068868618_1594464940.14/0/spring-core-4-3-7-release-sources-1.jar/org/springframework/asm/CurrentFrame.java
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* /opt/ws_local/PERMITS_SQL/1068868618_1594464940.14/0/spring-core-4-3-7-release-sources-1.jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /opt/ws_local/PERMITS_SQL/1068868618_1594464940.14/0/spring-core-4-3-7-release-sources-1.jar/org/springframework/core/AttributeAccessor.java
* /opt/ws_local/PERMITS_SQL/1068868618_1594464940.14/0/spring-core-4-3-7-release-sources-1.jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
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1.33 libusb 1.0.21

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1.41 jetty-continuation 9.4.29.v20200521

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* javax.servlet:javax.servlet-api  
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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

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org.eclipse.jetty.toolchain:jetty-schemas

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1.42 openssh 7.6p1

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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_

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

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLRDNORM
#define POLLWRBAND 0x0100
#define POLLRDBAND 0x0080
#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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- IDEA is no longer included, its use is deprecated  
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- GMP is no longer used, and instead we call BN code from OpenSSL  
- Zlib is now external, in a library  
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- TSS has been removed  
- MD5 is now external, in the OpenSSL library  
- RC4 support has been replaced with ARC4 support from OpenSSL  
- Blowfish is now external, in the OpenSSL library

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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 WCOREFLAG0x80
#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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   */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
#endif

## 1.43 josharian-intern v1.0.0

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1.51 jline-reader 3.10.0

1.52 pythonurllib 1.22 1

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    # Contributions to the urllib3 project

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## Contributors

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  * 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/>
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* kennethreitz <me@kennethreitz.com>
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  * Design review, bugfixes, test coverage.

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  * Support for explicitly closing pooled connections

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  * 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 <rom.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@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@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

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.54 rx-netty 0.4.9

1.55 reflections 0.9.9

1.56 asm 7.1

1.57 wildfly-picketlink 19.1.0.Final
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1.61 zipkin-reporter 2.15.0

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1.63 python-azure-mgmt-nspkg 2.0.0

1.64 api-ldap-extras-codec-api 1.0.0-M20

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1.65 ena 1.5.0

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1.75 jsr311-api 1.1.2.r612

1.76 spring-context 4.3.7.RELEASE

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/**
 * Indicates that a component is only eligible for registration when all
 * {@link #value specified conditions} match.
 *
 * <p>A &lt;em&gt;condition&lt;/em&gt; is any state that can be determined programmatically
 * before the bean definition is due to be registered (see &lt;link Condition&gt; for details).
 *
 * <p>The &lt;code&gt;@Conditional&lt;/code&gt; annotation may be used in any of the following ways:
 * &lt;ul&gt;
 * &lt;li&gt;as a type-level annotation on any class directly or indirectly annotated with
 * &lt;/li&gt;
 * &lt;li&gt;as a meta-annotation, for the purpose of composing custom stereotype
 * &lt;/li&gt;
 * &lt;li&gt;as a method-level annotation on any &lt;link Bean @Bean&gt; method&lt;/li&gt;
 * &lt;/ul&gt;
 *
 * <p>If a &lt;code&gt;@Configuration&lt;/code&gt; class is marked with &lt;code&gt;@Conditional&lt;/code&gt;,,
 * all of the &lt;code&gt;@Bean&lt;/code&gt; methods, &lt;link Import @Import&gt; annotations, and
 * &lt;link ComponentScan @ComponentScan&gt; annotations associated with that
 * class will be subject to the conditions.
 *
 * &lt;p&gt;&lt;strong&gt;NOTE&lt;/strong&gt;: Inheritance of &lt;code&gt;@Conditional&lt;/code&gt; annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * &lt;/code&gt; @Conditional itself is not declared as
 * &lt;link java.lang.annotation.Inherited @Inherited&gt;: furthermore, any
 * custom &lt;em&gt;composed annotation&lt;/em&gt; that is meta-annotated with
 * &lt;/code&gt; @Conditional must not be declared as &lt;code&gt; @Inherited&gt;.
 *
 * &lt;/ul&gt;
 *
 * &lt;author&gt;Phillip Webb&lt;/author&gt;
 * &lt;author&gt;Sam Brannen&lt;/author&gt;
 * &lt;since&gt;4.0&lt;/since&gt;
 * &lt;see&gt;Condition&lt;/see&gt;
 */

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* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3.jar/org/springframework/scripting/jruby/JRubyScriptUtils.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3.jar/org/springframework/scripting/jruby/JRubyScriptUtils.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3.jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java

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* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-
  jar/org/springframework/context/annotation/ScopedProxyCreator.java
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  jar/org/springframework/jmx/export/metadata/ManagedMetric.java
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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@link AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
* <p>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.
* <p>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/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/jndi/IndiLocatorSupport.java
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* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/annotation/AdviceMode.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/jmx/support/MetricType.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/EnvironmentAware.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/cache/support/SimpleCacheManager.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/servlet/ServletApplicationContext.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
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* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/MessageSourceAware.java

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* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/annotation/Condition.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.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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* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/cache/config/CacheManagementConfigUtils.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/cache/CacheManager.java
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* /opt/cola/permits/1147423585_1617010336.59/0/spring-context-4-3-7-release-sources-3-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
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* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
  jar/javax/annotation/concurrent/ThreadSafe.java
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
  jar/javax/annotation/concurrent/Immutable.java
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1.82 jackson-core 2.9.8

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1.84 tre 0.8.0

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Metadata-Version: 1.0
Name: tre
Version: 0.8.0
Summary: Python module for TRE
Home-page: http://laurikari.net/tre/
Author: Ville Laurikari
Author-email: ville@laurikari.net
License: 2-clause BSD
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1130788353_1612811420.75/0/tre-0-8-0-2-tar-gz/tre-0.8.0/PKG-INFO
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/*
   tre-python.c - TRE Python language bindings
*/

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*/

Found in path(s):
*/opt/cola/permits/1130788353_1612811420.75/0/tre-0-8-0-2-tar-gz/tre-0.8.0/tre-python.c

1.85 curl 7.58.0

1.85.1 Available under license:

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=============

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1.86 api-ldap-net-mina 1.0.0-M20
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5.12.3

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* /opt/ws_local/PERMITS_SQL/1084394563_1598481158.67/0/exp4j-0-4-8-sources-1-  
  jar/net/objecthunter/exp4j/tokenizer/ArgumentSeparatorToken.java  
* /opt/ws_local/PERMITS_SQL/1084394563_1598481158.67/0/exp4j-0-4-8-sources-1-  
  jar/net/objecthunter/exp4j/tokenizer/OpenParenthesesToken.java  
* /opt/ws_local/PERMITS_SQL/1084394563_1598481158.67/0/exp4j-0-4-8-sources-1-  
  jar/net/objecthunter/exp4j/shuntingyard/ShuntingYard.java  
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1.103 zipkin-sender-activemq-client 2.15.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2.reporter.activemq
Bnd-LastModified: 1589702730253
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Sender: ActiveMQ Client 5.15.x
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-activemq-client
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.activemq;version="2.15.0";uses:="org.apache.activemq,zipkin2,zipkin2.codec,zipkin2.reporter"
Import-Package: javax.jms;version="[1.1,2)";org.apache.activemq;version="[5.15,6)";org.apache.activemq.transport;version="[5.15,6)";zipkin2;version="[2.21,3)";zipkin2.codec;version="[2.21,3)";zipkin2.reporter;version="[2.15,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&osgi.ee=JavaSE)(version=1.6)"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1096695429_1601878598.88/0/zipkin-sender-activemq-client-2.15.0.jar/META-INF/MANIFEST.MF

1.104 kbd 2.0.4 1.0
1.104.1 Available under license:

```
# PC Screen (console) Fonts - psf1 header
# 0       leshort         0x0436          psf screen font data
>2      byte            0               256 characters, no index
>2      byte            1               512 characters, no index
>2	byte		2		256 characters, Unicode index
>2	byte		3		512 characters, Unicode index
>2	byte		4		256 characters, Unicode level 2 index
>2	byte		5		512 characters, Unicode level 2 index
>3	byte		x		8x%d
# PC Screen (console) Fonts - psf2 header
# 0       lelong		0x864ab572	psf2 screen font data
>12	lelong&1	1		with Unicode index
>16	lelong		x		\b, %d glyphs
>28	lelong		x		\b%d
```

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protected static final AttributeDefinition CONFIDENTIALITY = new SimpleAttributeDefinitionBuilder(

Constants.IOR_TRANSPORT_CONFIDENTIALITY, ModelType.STRING, true) static final

List<AttributeDefinition> IOR_TRANSPORT_CONFIG_ATTRIBUTES = Arrays.asList(INTEGRITY,

CONFIDENTIALITY, TRUST_IN_TARGET,'

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1.112 testify 1.7.0

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1.130 python-daemonize 2.4.7
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1.131 wildfly-naming 19.1.0.Final

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1.132 lucene 4.10.4

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Ty Coon, President of Vice

That's all there is to it!

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1.133 velocity-engine-core 2.1

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1.138 commons-csv 1.6

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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
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:jettyschemas

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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. 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.

1.150 safe-buffer 5.1.2
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1.151 vdx-core 1.1.6

1.152 bouncy-castle 1.66

1.152.1 Available under license:

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):
*/opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/asn1/x9/DomainParameters.java
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//**
 * Poly1305 message authentication code, designed by D. J. Bernstein.
 * <p>
 * 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.
 * <p>
 * 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).
 * @see Poly1305KeyGenerator
 */

Found in path(s):
*/opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/crypto/macs/Poly1305.java
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// now keep space is free to use

Found in path(s):
* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/pqc/crypto/gmss/GMSSPrivateKeyParameters.java
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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>
* <p>
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/

Found in path(s):
*/opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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/**
 * Magic value for proprietary OpenSSH private key.
 /**

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*/opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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jar/org/bouncycastle/pqc/math/ntru/euclid/test/IntEuclideanTest.java

Open Source Used In MSX SD-WAN Service Pack 4.0.0 1217
1.153 python-azure-mgmt-network 1.7.1

1.154 cron 3.0pl1 128ubuntu2

1.155 angular-uuid 0.1.0
1.155.1 Available under license:

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1.156 jctools-core 2.1.1
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1.157 dagger 2.7

1.158 mawk 1.3.3-17+b3

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1.160 node.js 8.9.4

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1.163 javassist 3.21.0-GA

1.164 cryptacular 1.2.0
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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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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 itself accompanies the executable.

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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.

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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.

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b) You must cause the files modified to carry prominent notices
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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
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Thus, it is not the intent of this section to claim rights or contest
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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.

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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.)

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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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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/* 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_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 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
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
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single nxt200x frontend driver.

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The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.

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1.183 glibc 2.27

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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 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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@enumerate a
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The modified work must itself be a software library.

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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.)
@end enumerate

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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.

@item
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.

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:

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
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.

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.

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.

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.

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@example

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/* setjmp is implemented in setjmp.S */

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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.

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.

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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.

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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
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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.

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1.184 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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1.185 jemalloc 5.1.0

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1.186 jetty 9.4.29.v20200521

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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 GPLv2 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

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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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1.188 python-cryptography 2.1.4

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
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1.191 cassandra-lucene-index-builder 3.11.3.0

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Found in path(s):
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* /opt/cola/permits/1096695471_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/BlobMapper.java

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1.192 expat 2.2.5

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1.193 httpcomponents-core 4.2.5
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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: `\{ case (a, b) => ... \}
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,
   or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}
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: `\{ case (param1, ..., param3) => ... \}
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^  
three errors found
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text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Detect unordered_map in stl_hash.m4.

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* 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.

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* 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().

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* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

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* 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
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This option is useful when you wish to copy part of the code of
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1.203 msx-platform-go-client 1.0.4
**1.203.1 Available under license:**
No license file was found, but licenses were detected in source scan.

openapi: 3.0.0
info:
  contact:
    email: somecontact@cisco.com
    name: Cisco Systems Inc.
    url: http://www.cisco.com
  description: MSX Platform SDK
  license:
    name: Apache License Version 2.0
    url: http://www.apache.org/licenses/LICENSE-2.0.html
  termsOfService: http://www.cisco.com
  title: KAKAPO - MSX SDK
  version: 3.9.0
servers:
  - url: //localhost:8765
security:
  - bearerAuth: []
paths:
  /consume/api/v8/products:
    get:
      operationId: getProductsPage
      parameters:
        - explode: true
          in: query
          name: page
          required: true
          schema:
            example: 0
            format: int32
            minimum: 0
            type: integer
            style: form
        - explode: true
          in: query
          name: pageSize
          required: true
          schema:
            example: 10
            format: int32
            maximum: 1000
            minimum: 1
            type: integer
            style: form
      responses:
        "200":

Open Source Used In MSX SD-WAN Service Pack 4.0.0

- id: ea557db8-391c-4c67-a504-c546e367868f
  name: vbranch
  label: cisco.catalog.service.vbranch.name
  version: "1"
  description: cisco.catalog.service.vbranch.description
  image: /services/vbranch/images/icons/image_vbranch_service.svg
  orderLimit: 1
  multipleInstanceAllowed: false
  price: 500
  options: []
  properties: []
  configuration:
    device: "false"
    parts: "2"
    showOffers: "true"
    validation: none
  isResource: false
  hasChildren: false
  serviceExtensions: []
  serviceConfigQueryRootXPaths: []

- id: 1a302d7c-5311-4fdf-aa99-ca99dec586b9
  name: vbranch
  label: cisco.catalog.service.sdwan.name
  version: "1"
  description: cisco.catalog.service.sdwan.description
  image: /services/sdwan/images/icons/image_sdwan_service.svg
  orderLimit: 1
  multipleInstanceAllowed: false
  price: 500
  options: []
  properties: []
  configuration:
    device: "false"
    parts: "2"
    showOffers: "true"
    validation: none
  isResource: false
  hasChildren: false
  serviceExtensions: []
  serviceConfigQueryRootXPaths: []
Open Source Used In MSX SD-WAN Service Pack 4.0.0

schema:
  $ref: '#/components/schemas/ProductsPage'
description: OK
"400":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of products.
tags:
- Products
post:
  operationId: createProduct
  requestBody:
    content:
      application/json:
        example:
          name: vbranch
          label: cisco.catalog.service.vbranch.name
          version: "1"
          description: cisco.catalog.service.vbranch.description
          image: /services/vbranch/images/icons/image_vbranch_service.svg
          orderLimit: 1
          multipleInstanceAllowed: false
          price: 500
          options: []
          properties: []
          configuration:
            device: "false"
parts: "2"
showOffers: "true"
validation: none
isResource: false
hasChildren: false
serviceExtensions: []
serviceConfigQueryRootXPaths: []
schema:
  $ref: '#/components/schemas/ProductCreate'
required: true
responses:
  "201":
  content:
    application/json:
      example:
        id: ea557db8-391c-4c67-a504-c546e367868f
        name: vbranch
        label: cisco.catalog.service.vbranch.name
        version: "1"
        description: cisco.catalog.service.vbranch.description
        image: /services/vbranch/images/icons/image_vbranch_service.svg
        orderLimit: 1
        multipleInstanceAllowed: false
        price: 500
        options: []
        properties: []
        configuration:
          device: "false"
          parts: "2"
          showOffers: "true"
          validation: none
          isResource: false
          hasChildren: false
          serviceExtensions: []
          serviceConfigQueryRootXPaths: []
schema:
  $ref: '#/components/schemas/Product'
description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
summary: Creates a product.
tags:
- Products
/consume/api/v8/products/count:
get:
operationId: getProductsCount
responses:
"200":
content:
application/json:
example: 11
schema:
format: int64
type: integer
description: OK
"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
    description: Internal Server Error
    summary: Deletes a product.
  tags:
    - Products
  get:
    operationId: getProduct
    parameters:
      - explode: false
        in: path
        name: id
        required: true
    schema:
      format: uuid
      type: string
    responses:
      "200":
        content:
          application/json:
            example:
              id: ea557db8-391c-4c67-a504-c546e367868f
              name: vbranch
              label: cisco.catalog.service.vbranch.name
              version: "1"
              description: cisco.catalog.service.vbranch.description
              image: /services/vbranch/images/icons/image_vbranch_service.svg
              orderLimit: 1
              multipleInstanceAllowed: false
              price: 500
              options: []
              properties: []
              configuration:
                device: "false"
                parts: "2"
                showOffers: "true"
              validation: none
              isResource: false
              hasChildren: false
              serviceExtensions: []
              serviceConfigQueryRootXPaths: []
    schema:
      $ref: '#/components/schemas/Product'
    description: OK
  "400":

content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
    description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns a product.
tags:
- Products
put:
  operationId: updateProduct
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  requestBody:
    content:
      application/json:
        example:
          name: vbranch
description: OK
"400":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Update a product.
tags:
  - Products
/consume/api/v8/offers:
get:
  operationId: getOffersPage
parameters:
  - explode: true
    in: query
    name: productId
    required: false
    schema:
      format: uuid
      type: string
      style: form
  - explode: true
    in: query

name: page
required: true
schema:
  example: 0
  format: int32
  minimum: 0
  type: integer
  style: form
- explode: true
in: query
name: pageSize
required: true
schema:
  example: 10
  format: int32
  maximum: 1000
  minimum: 1
  type: integer
  style: form
responses:
  "200":
    content:
      application/json:
        example:
          page: 0
          pageSize: 10
          hasNext: false
          hasPrevious: false
          contents:
            - id: e3733184-09fa-4dc1-90e2-9ca233d5999a
              name: branches
              label: cisco.consume.service.vbranch.offer.name
              description: cisco.consume.service.vbranch.offer.description
              productId: 46bad1ba-2704-419d-b9b4-f1cdff79da4f
              version: 1
              displayOrder: 1
              image: /services/vbranch/images/icons/image_vbranch_service.svg
              supportedProperties:
                - name: Basic-small
              supportedOptions:
                - name: Template_Development_Environment
                  value: "Yes"
                - name: Zero_Touch_Deployment
                  value: "Yes"
                - name: Custom_Service_Chaining
                  value: "Yes"
                - name: Third_Party
                  value: "Yes"
id: 90521e4f-8074-458c-b278-2144c0f53b5a
name: cisco.consume.service.manageddevice.label
label: cisco.consume.manageddevice.offer.manageddevice.full
description: cisco.consume.service.manageddevice.description.label
productId: c9651078-b8d9-4018-bf25-8be6b6c06d85
version: 1
displayOrder: 1
image: services/manageddevice/images/managed-cpe.svg
supportedProperties:
- Basic-small
supportedOptions:
- name: Centralized_device_management
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Configuration_templates
  value: "Yes"
- name: Monitoring_and_metrics
  value: "Yes"
schema:
  $ref: '#/components/schemas/OffersPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of product offers.
tags:
- Offers

post:

operationId: createOffer

requestBody:

content:

application/json:

example:

name: cisco.consume.service.manageddevice.label
label: cisco.consume.manageddevice.offer.manageddevice.full
description: cisco.consume.service.manageddevice.description.label
productId: 83432bdd-1293-4bf3-ab53-77a199e2beff
version: 1
displayOrder: 1
image: services/manageddevice/images/managed-cpe.svg
price: test
type: test

supportedProperties:
- Basic-small

supportedOptions:
- name: Centralized_device_management
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Configuration_templates
  value: "Yes"
- name: Monitoring_and_metrics
  value: "Yes"

schema:

$ref: '#/components/schemas/OfferCreate'

required: true

responses:

"201":

content:

application/json:

example:

id: e3733184-09fa-4dc1-90e2-9ca233d5999a
name: cisco.consume.service.manageddevice.label
label: cisco.consume.manageddevice.offer.manageddevice.full
description: cisco.consume.service.manageddevice.description.label
productId: 46bad1ba-2704-419d-b9b4-f1cddf79da4f
version: 1
displayOrder: 1
image: services/manageddevice/images/managed-cpe.svg
price: test
type: test

supportedProperties:
- Basic-small

supportedOptions:
- name: Centralized_device_management
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Configuration_templates
  value: "Yes"
- name: Monitoring_and_metrics
  value: "Yes"
schema:
  $ref: '#/components/schemas/Offer'
description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a product offer.
tags:
- Offers
/consume/api/v8/offers/count:
  get:
    operationId: getOffersCount
    parameters:
    - explode: true
      in: query
      name: productId
      required: false
    schema:
      format: uuid
type: string
style: form
responses:
  "200":
    content:
      application/json:
        example: 7
        schema:
          format: int64
          type: integer
        description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Returns count of product offers.
tags:
- Offers
/consume/api/v8/offers/{id}:
delete:
  operationId: deleteOffer
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
type: string
style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Deletes a product offer
tags:
- Offers
get:
  operationId: getOffer
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
style: simple
responses:
"200":
  content:
    application/json:
      example:
        id: e3733184-09fa-4dc1-90e2-9ca233d5999a
        name: branches
        label: cisco.consume.service.vbranch.offer.name
        description: cisco.consume.service.vbranch.offer.description
        productId: 46bad1ba-2704-419d-b9b4-f1cddf79da4f
        version: 1
        displayOrder: 1
        image: /services/vbranch/images/icons/image_vbranch_service.svg
        supportedProperties:
        - Basic-small
        supportedOptions:
        - name: Template_Development_Environment
          value: "Yes"
        - name: Zero_Touch_Deployment
          value: "Yes"
        - name: Custom_Service_Chaining
          value: "Yes"
        - name: Third_Party
          value: "Yes"
        schema:
          $ref: '#/components/schemas/Offer'
      description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
required: true
responses:
"200":
  content:
    application/json:
      example:
        id: e3733184-09fa-4dc1-90e2-9ca233d5999a
        name: branches
        label: cisco.consume.service.vbranch.offer.name
        description: cisco.consume.service.vbranch.offer.description
        productId: 46bad1ba-2704-419d-b9b4-f1c0ff79da4f
        version: 1
        displayOrder: 1
        image: /services/vbranch/images/icons/image_vbranch_service.svg
        supportedProperties:
        - Basic-small
        supportedOptions:
        - name: Template_Development_Environment
          value: "Yes"
        - name: Zero_Touch_Deployment
          value: "Yes"
        - name: Custom_Service_Chaining
          value: "Yes"
        - name: Third_Party
          value: "Yes"
      schema:
        $ref: '#/components/schemas/Offer'
      description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
name: page
required: true
schema:
  example: 0
  format: int32
  minimum: 0
  type: integer
  style: form
- explode: true
  in: query
name: pageSize
required: true
schema:
  example: 10
  format: int32
  maximum: 1000
  minimum: 1
  type: integer
  style: form
- explode: true
  in: query
name: sortBy
required: false
schema:
  example: name
  type: string
  style: form
- explode: true
  in: query
name: sortOrder
required: false
schema:
  enum:
  - asc
  - desc
  type: string
  style: form
responses:
  "200":
    content:
      application/json:
        example:
          page: 0
          pageSize: 3
          hasNext: true
          hasPrevious: false
          contents:
          - id: 57acc99e-5301-44b1-87d8-9383feb705c3
name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
model: CISCO CSR 1000v
type: CISCO CSR 1000v
serialKey: CLctKw8azuMR
version: "123"
serviceType: manageddevice
managed: true
onboardType: direct
onboardInformation:
  serviceType: manageddevice
  variables:
    "{"ONBOARDING_INTERFACE":"GigabitEthernet1"","CUSTOMER_PASSWORD_MD5":"$8$IH9SrDINF1YkYD7/x9FSYHnoxeAY4AEcncCGbe1ZWGOGx1nk1n6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$BnSiQUd4kW5VqGe/6jLziV59kU3n4DKKumIBgVGMCR1V6dcRzybuNJ16cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngtscjB+l9hlUJTAYFEI0Ghl+8IB43he/+SGBbr45Bi0ETyP9Wq90km3gb+bh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BVgd","CUSTOMER_USERNAME":"vmsmd33"}
address: 10.254.0.3
always-allocate-ip: "true"
net-id: cisco-ios
onboarding-template-done: "true"
password: $8$IH9SrDINF1YkYD7/x9FSYHnoxeAY4AEcncCGbe1ZWGOGx1nk1n6+EdsPYacwXUdh
port: "22"
secondary-password:
  $8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BVgd
device-type: cli
original-address: 3.134.83.79
username: vmsmd33
status:
  value: FAIR
  severity: "5"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by system
statusDetails:
  healthStatus:
    value: UNKNOWN
    severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
    lastUpdatedMessage: Updated by system
pnStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
    lastUpdatedMessage: Updated by system
lifeCycleStatus:
  value: UNREGISTERED
  severity: "5"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
syncStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
tunnelStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T17:40:50Z
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
tenantId: 4ea8924b-fb40-43ae-ad10-de99139e7357
providerId: fe3ad89e-449f-42f2-b4f8-b10ab7bc0266
userId: f8eb77d2-de36-43b7-a021-ad3a3901e23a
createdOn: 2020-08-06T17:40:50Z
modifiedOn: 2020-08-06T17:40:50Z
- id: 2d3f45a6-48ed-4eef-b228-4736f0a678e5
  name: device-name-27a878a4-721e-4758-82b3-c05de0c7de0b
  model: CISCO CSR 1000v
type: CISCO CSR 1000v
serialKey: 36unrHXMxmvr
version: "123"
serviceType: manageddevice
managed: true
onboardType: direct
onboardInformation:
  serviceType: manageddevice
  variables:
  
  
  "{"ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MDX":"$8$YH9SrDINF1YkJYD7/e9FSYHnxxeAY4AEcncCGbe1ZWGOGX1nk6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$BnSiQul4kW5VqGe/6jLziV59kU3n4DKWilliamBvGMCRIv6deRzybuN16cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngtctjB+19ihUJTAYFEI0GhI+8IB43he/+GBm45BjOETyP9Wq90kn3gbeh","ENABLE_SECRET":"$8$maC3mSZ0hY4e25G7M6bWBsx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"}
  
address: 10.254.0.3
always-allocate-ip: "true"
net-id: cisco-ios
onboarding-template-done: "true"
password: $8$YH9SrDINF1YkJYD7/e9FSYHnxxeAY4AEcncCGbe1ZWGOGX1nk6+EdsPYacwXUdh
port: "22"
secondary-password: $8$maC3mSZ0hY4e25G7M6bWBsx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d
device-type: cli
original-address: 3.134.83.79
username: vmsmd33
status:
value: FAIR
severity: "5"
lastUpdated: 2020-08-06T18:21:21Z
lastUpdatedMessage: Updated by system
statusDetails:
healthStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T18:21:21Z
lastUpdatedMessage: Updated by superuser
pnpStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T18:21:21Z
lastUpdatedMessage: Updated by superuser
lifeCycleStatus:
  value: UNREGISTERED
  severity: "5"
lastUpdated: 2020-08-06T18:21:21Z
lastUpdatedMessage: Updated by superuser
syncStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T18:21:21Z
lastUpdatedMessage: Updated by superuser
tunnelStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T18:21:21Z
lastUpdatedMessage: Updated by superuser
tenantId: a76407a2-d293-4e19-aaea-d5d4da4f4b24
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T18:21:21Z
modifiedOn: 2020-08-06T18:21:21Z
- id: 83a38a3e-5b26-4d87-b1c7-6729641a8e51
  name: device-name-145611c2-f09c-4624-9b03-98fdd9c6d830
  model: CISCO CSR 1000v
  type: CISCO CSR 1000v
  serialKey: vvKqftXraGq
  version: "123"
  serviceType: manageddevice
  managed: true
  onboardType: direct
  onboardInformation:
    serviceType: manageddevice
    variables:
        ""ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$IH9SrDINF1Yk
address: 10.254.0.3
always-allocate-ip: "true"
ned-id: cisco-ios
onboarding-template-done: "true"
password: $8$H9SrDINF1YkYD7/x9FSYHnoxeAY4AEcnCGbe1ZWGOGx1nkn6+EdsPYacwXUdh
port: "22"
secondary-password: $8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d
device-type: cli
original-address: 3.134.83.79
username: vmsmd33
status:
  value: FAIR
  severity: "5"
lastUpdated: 2020-08-06T18:21Z
lastUpdatedMessage: Updated by system
statusDetails:
  healthStatus:
    value: UNKNOWN
    severity: "3"
lastUpdated: 2020-08-06T18:21Z
lastUpdatedMessage: Updated by superuser
pnpStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T18:21Z
lastUpdatedMessage: Updated by superuser
lifeCycleStatus:
  value: UNREGISTERED
  severity: "5"
lastUpdated: 2020-08-06T18:21Z
lastUpdatedMessage: Updated by superuser
syncStatus:
  value: UNKNOWN
  severity: "3"
lastUpdated: 2020-08-06T18:21Z
lastUpdatedMessage: Updated by superuser

tenantId: a76407a2-d293-4e19-aaea-d5d4da4f4b24
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
userId: c0c3cfcf0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T18:17:21Z
modifiedOn: 2020-08-06T18:17:21Z

schema:
  $ref: '#/components/schemas/DevicesPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns a page of devices.
tags:
- Devices

post:
  operationId: createDevice
  requestBody:
    content:
      application/json:
        example:
          tenantId: 4ea8924b-fb40-43ae-ad10-de99139e7357
          name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
          model: CISCO CSR 1000v
          type: CISCO CSR 1000v
          serviceType: manageddevice
          serialKey: CLetKw8azMR
          version: "123"
9Wq90km3gbeh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"

address: 10.254.0.3
always-allocate-ip: "true"
 ned-id: cisco-ios
 onboarding-template-done: "true"
 password: $8$IH9sDINFl1YkYD7/x9FSYHn0xeAY4AEcncCGbe1ZWGOx1nkn6+EdsPYacwXUdh
 port: "22"
 secondary-password: $8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFluwNjh50BQpR0sSpGOXo0BvG0d
device-type: cli
 original-address: 3.134.83.79
 username: vmsmd33
 status:
 value: FAIR
 severity: "5"
 lastUpdated: 2020-08-06T17:40:50Z
 lastUpdatedMessage: Updated by system
 statusDetails:
 healthStatus:
 value: UNKNOWN
 severity: "3"
 lastUpdated: 2020-08-06T17:40:50Z
 lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
 pnpStatus:
 value: UNKNOWN
 severity: "3"
 lastUpdated: 2020-08-06T17:40:50Z
 lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
 lifeCycleStatus:
 value: UNREGISTERED
 severity: "5"
 lastUpdated: 2020-08-06T17:40:50Z
 lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
 syncStatus:
 value: UNKNOWN
 severity: "3"
 lastUpdated: 2020-08-06T17:40:50Z
 lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
 tunnelStatus:
 value: UNKNOWN
 severity: "3"
 lastUpdated: 2020-08-06T17:40:50Z
 lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe
 tenantId: 4ea8924b-fb40-43ae-ad10-de99139e7357
 providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
 userId: f8eb77d2-de36-43b7-a021-adea3901e23a
 createdOn: 2020-08-06T17:40:50Z
modifiedOn: 2020-08-06T17:40:50Z
schema:
$ref: '#/components/schemas/Device'
description: Created
"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a device.
tags:
- Devices
/manage/api/v8/devices/{id}:
delete:
operationId: deleteDevice
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
"204":
description: No Content
"400":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a device.
tags:
  - Devices
get:
  operationId: getDevice
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
            name: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
            model: CISCO CSR 1000v
type: CISCO CSR 1000v
tags:
resourceProvider: nso
serialKey: 97K7C3YDPY1
version: 16.9.5
serviceInstanceId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
subscriptionId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
serviceType: manageddevice
managed: true
onboardType: pnp
onboardInformation:
serviceType: manageddevice
variables: '["ONBOARDING_INTERFACE":"GigabitEthernet1","CPE_HOSTNAME":"CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3"]'
day0-file: CPE_day0_base_config.txt, CPE_day0_tunnel_config.txt
always-allocate-ip: "true"
ned-id: cisco-ios
encryptedVariables: '
"CPE_SNMP_V3_AUTH_PASS":"$8$ZZFx9L6bG368GtfSsuSkpScU2u86Ecsis5ieia61JKk05ah/L157ggRNeJhIn
vp0", "CPE_SNMP_V3_PRIV_PASS":"$8$kJODLmeuGnar7jFwDmat58fSa5vCR4YcKqrnonPff2q2+9bdvoXMPR
UGKLV1Ek7"
'
platform-device-subtype: ISR
password: "$8$2NB0CYn0o97Kf3yUcaQavEo+R2URp2N6fpLAv14GblJzbGvaQVlssfMtBfw6Pjn
port: "22"
platform-device-category: CPE
secondary-password: "$8$ipNL0lYbqWf/kt7DtnLv1YsoqSmpndAxEayJT9qA0cQriDByU9AmWtxijMIpve
platform-device-type: CPE
device-type: cli
serialKey: 97K7C3YDPY1
username: vmsmd33
attributes:
    templateDetails: '[{"templateId":"7919b9ec-cbbb-44f4-9dd1-f29f37d91144","templateName":"managed-
device-regression-test-template-80f3f736-1692-4128-92f1-
b109ec1bf12d","deviceParams":[]}]'
    address: '[{"address1":"88 Queens Quay W, Toronto, ON M5J, Canada","lat":"43.641134","lng":"-79.37703469999997"}]'
deviceTypeName: CISCO CSR 1000v
siteName: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f
deviceInterfaces: '[{"name":"GigabitEthernet1","roles":[]}]'
deviceId: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
deviceName: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
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application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
  application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a device.
tags:
  - Devices
/manage/api/v8/devices/{id}/config:
get:
  operationId: getDeviceConfig
parameters:
  - explode: false
    in: path
    name: id
    required: true
  schema:
    type: string
    style: simple
responses:
  "200":
    content:
      application/json:
example: "Building configuration...
Current configuration : 9574
bytes
Last configuration change at 20:36:57 UTC Tue Aug 4
2020
version 16.9
service timestamps debug datetime msec

service timestamps log datetime msec
service password-encryption

service call-home
platform qfp utilization monitor load 80
no platform
punt-keepalive disable-kernel-core
platform console virtual
platform hardware throughput level MB 100
hostname CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3

no boot-start-marker
no boot-end-marker
no nvrf definition MGMT-OVERLAY

no address-family ipv4
no exit-address-family
no nlogging buffered

64000
no logging console
enable secret 5 $1$5rN/$zSrp3tqUpuJfrU3voyxj.

aaa new-model

aaa authorization login default local

aaa authorization network default local

aaa session-id common
call-home
If contact
email address in call-home is configured as sch-smart-licensing@cisco.com

the email address configured in Cisco Smart License Portal will
be used as contact email address to send SCH notifications.
contact-email-address

sch-smart-licensing@cisco.com
source-interface GigabitEthernet1
profile "CiscoTAC-1" active
destination transport-method
http
no destination transport-method email
no ip source-route
ip bootp server
name-server 172.23.169.10"
ip admission watch-list expiry-time 0

ip domain name CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
ip admission watch-list expiry-time 0

login on-success log

subscriber templating
multilink
bundle-name authenticated
ncs
encryption terminal
enrollment none
ncs
encryption pki trustpoint SLA-TrustPoint
enrollment pkcs12 revocation-check none
ncs
encryption pki certificate chain ncs

7D4D1247F4401502FD7418ABC43323839FC402BUN

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\ interface\n!\ncrypto ikev2 redirect client\ncrypto ikev2 proposal\
\ IKEv2-prop1 \n encryption aes-cbc-256 aes-cbc-128\n integrity sha256\
\ sha1\n group 2 5\n!\ncrypto ikev2 policy IKEv2-pol \n proposal IKEv2-prop1\n\
!\n!\ncrypto ikev2 profile MGMT-OVERLAY\n match identity remote fqdn\
\ domain cloudvpn.com\n identity local address 10.254.0.1\n authentication\
\ remote pre-share key Cisco1234Admin\n authentication local pre-share\
\ key Cisco1234Admin\n dpd 600 2 periodic\n nat keepalive 25\n aaa\
\ authorization group psk list default default\n!\ncrypto ikev2 client\
\ flexvpn OVERLAY\n peer 1 192.171.16.177\n client connect Tunnel0\n\
!\n!\n!\n!\n! \n!\n!\n!\n!\n!\n!\ncrypto ipsec security-association\
\ idle-time 600\n!\ncrypto ipsec transform-set MGMT-ENCR esp-aes esp-sha-hmac\
\ \n mode transport\n!\ncrypto ipsec profile MGMT-OVERLAY\n set transform-set\
\ MGMT-ENCR \n set ikev2-profile MGMT-OVERLAY\n!\n!\n!\ncrypto call\
\ admission limit ike in-negotiation-sa 30\n!\n!\n!\n!\n! \n! \n!\n\
!\ninterface Tunnel0\n vrf forwarding MGMT-OVERLAY\n ip address 10.254.0.1\
\ 255.255.255.255\n ip mtu 1400\n ip tcp adjust-mss 1360\n tunnel\
\ source GigabitEthernet1\n tunnel mode ipsec ipv4\n tunnel destination\
\ dynamic\n tunnel protection ipsec profile MGMT-OVERLAY\n!\ninterface\
\ GigabitEthernet1\n description WAN interface\n ip address dhcp\n\
\ negotiation auto\n no mop enabled\n no mop sysid\n!\nip forward-protocol\
\ nd\nno ip http server\nno ip http secure-server\nip http client\
\ source-interface GigabitEthernet1\nip route vrf MGMT-OVERLAY 0.0.0.0\
\ 0.0.0.0 Tunnel0\n!\nip ssh version 2\nip ssh pubkey-chain\n username\
\ admin\nip scp server enable\n!\n!\n!\nsnmp-server group ciscogroup\
\ v3 auth \nsnmp-server community ciscodp RW\n!\n!\n!\n!\ncontrol-plane\n\
!\n!\n!\n!\n!\n!\nline con 0\n exec-timeout 5 0\n privilege level\
\ 15\n authorization exec none\n logging synchronous\n stopbits 1\n\
line vty 0 4\n exec-timeout 0 0\n privilege level 15\n authorization\
\ exec none\n length 0\n transport input ssh\nline vty 5 15\n exec-timeout\
\ 30 0\n privilege level 15\n authorization exec none\n logging synchronous\n\
\ transport input ssh\n!\n!\n!\n!\n!\n!\n!\npnp profile msx-pnp\n\
\ transport https ipv4 192.171.16.174 port 8443 source GigabitEthernet1\n\
end\n\nCPE-828dcb62-2345-4b8f-b5af-5db230a95cd3#\n"
schema:
type: string
description: OK
"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated

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"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Returns the running configuration for a device.
tags:
  - Devices
/manage/api/v8/devices/{id}/templates:
delete:
  operationId: detachDeviceTemplates
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
      responses:
"200":
  content:
    application/json:
      schema:
        items:
          $ref: '#/components/schemas/DeviceTemplateHistory'
        type: array
        description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Bad Request
"401":

Detach device templates that are already attached to a device.

tags:
- Devices

get:
operationId: getDeviceTemplateHistory

parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple

responses:
"200":
  content:
    application/json:
      schema:
        items:
          $ref: '#/components/schemas/DeviceTemplateHistory'
        type: array
      description: OK

"400":
  content:
    application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns device template history.
tags:
- Devices
post:
  operationId: attachDeviceTemplates
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
        templateDetails:
        - templateId: e7e20070-9d67-40a8-a21d-f655606b7421
templateParams:
        - name: name1
- Devices

put:
operationId: updateDeviceTemplates
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/DeviceTemplateUpdateRequest'
        required: true
responses:
  "200":
  content:
Update device templates that are already attached to a device.

tags:
- Devices

/manage/api/v8/devices/{id}/templates/{templateId}:
delete:
  operationId: detachDeviceTemplate
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
- type: string
  style: simple
- explode: false
in: path
name: templateId
required: true
schema:
  format: uuid
  type: string
  style: simple
responses:
  "200":
    content:
      application/json:
        schema:
          items:
            $ref: '#/components/schemas/DeviceTemplateHistory'
          type: array
        description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Detaches a template from a device.
tags:
- Devices
/manage/api/v8/devices/{id}/redeploy:
  post:
    operationId: redeployDevice
    parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
    responses:
      "200":
        description: OK
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
              description: Bad Request
      "401":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
              description: Unauthenticated
      "403":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
              description: Unauthorized
      "409":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
              description: Conflict
      "500":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
              description: Internal Server Error
summary: Dedeploys a device.
tags:
- Devices
/manage/api/v8/devicetemplates:
post:
  operationId: createDeviceTemplate
  requestBody:
    content:
      application/json:
        example:
          name: name-8d4a2628-06c0-436b-8a90-d90027917405
          version: v1
          serviceType: manageddevice
          configContent: string
          templateStandard: nso
          tenantAccess:
            global: true
          schema:
            $ref: '#/components/schemas/DeviceTemplateCreate'
        required: true
      responses:
        "201":
          content:
            application/json:
              example:
                name: name-8d4a2628-06c0-436b-8a90-d90027917405
                version: v1
                serviceType: manageddevice
                configContent: string
                templateStandard: nso
                tenantAccess:
                  templateId: beaf0bee-bdf9-4ade-993a-de352fa38bc7
                  global: true
                  id: beaf0bee-bdf9-4ade-993a-de352fa38bc7
                  userId: f1a0f9cc-08c1-4190-98b9-48b0988b9c7f
                  createdOn: 2020-08-06T19:37:55.615Z
                schema:
                  $ref: '#/components/schemas/DeviceTemplate'
                description: Created
        "400":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Error'
              description: Bad Request
        "401":
          content:
            application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a device template.
tags:
- Device Templates
/manage/api/v8/devicetemplates/list:
  get:
    operationId: getDeviceTemplatesList
parameters:
- example: manageddevice
  explode: true
  in: query
  name: serviceType
  required: false
  schema:
    type: string
    style: form
- example: 2664f157-18d8-4ecd-8c78-66b7cb7e1e25
  explode: true
  in: query
  name: tenantId
  required: false
  schema:
    format: uuid
type: string
style: form
responses:
  "200":
    content:
      application/json:
        example:
- name: name-8d4a2628-06c0-436b-8a90-d90027917405
  version: v1
type: string
style: form
tags:
- Device Templates
/manage/api/v8/devicetemplates/list:
  get:
    operationId: getDeviceTemplatesList
parameters:
- example: manageddevice
  explode: true
  in: query
  name: serviceType
  required: false
  schema:
    type: string
    style: form
- example: 2664f157-18d8-4ecd-8c78-66b7cb7e1e25
  explode: true
  in: query
  name: tenantId
  required: false
  schema:
    format: uuid
type: string
style: form
responses:
  "200":
    content:
      application/json:
        example:
- name: name-8d4a2628-06c0-436b-8a90-d90027917405
  version: v1
type: string
style: form
tags:
- Device Templates
id: beaf0bee-bdf9-4ade-993a-de352fa38bc7
userId: f1a0f9cc-08c1-4190-98b9-48b0988b9c7f
createdOn: 2020-08-06T19:37:55.615Z
- name: name-5cba2b31-93e7-4968-8a3a-a20552bc527b
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: 1f3098f9-884d-485a-b1cb-501067f5142a
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T19:40:41.316Z
- name: name-54852468-0eca-4d60-9764-5f207090954d
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: 5af62fa7-c753-43a9-8b69-be87e08ab8f7
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T19:40:41.235Z
- name: name-c24fe522-ca69-4be1-829b-518478e4d2ee
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: e7e20070-9d67-40a8-a21d-f655606b7421
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T18:26:28.021Z
- name: name-42e1aabb-45cf-4209-8de0-250aaaf88715
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: f3b096d8-5633-4956-bb2f-1aa8f0f5b122
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T19:40:41.092Z
- name: name-38bc5ad4-a94e-4904-a1ff-12add574efb
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: 87710499-3431-4c53-8ce2-c28170c261e7
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-06T18:26:28.131Z
- name: managed-device-regression-test-template-80f3f736-1692-4128-92f1-b109e1bf12d3
  version: v1
  serviceType: manageddevice
  templateStandard: nso
  id: 7919b9e2-cbbb-44f4-9dd1-f29f37d91144
  userId: c0c3cfff0-d5d5-11ea-b88a-a7053c652ef4
  createdOn: 2020-08-04T20:30:52.486Z
- name: name-f3f300c9-94e5-46ac-88d8-f8bb5cbb4b1a
  version: v1
  serviceType: manageddevice
templateStandard: nso
id: 5a6e44b7-987c-476f-9b52-b7506dfd0ac4
userId: b77fb077-997a-401b-b6c8-08a4b89e383a
schema:
  items:
    $ref: '#/components/schemas/DeviceTemplate'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of device templates.
tags:
  - Device Templates
/manage/api/v8/devicetemplates/{id}:
delete:
  operationId: deleteDeviceTemplate
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
type: string
style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Internal Server Error
summary: Deletes a device template.
tag:
  - Device Templates

get:
  operationId: getDeviceTemplate
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
        style: simple
  responses:
"200":
  content:
    application/json:
      example:
        name: name-de8f846f-199e-48e4-ad85-831f284329bb
        version: v1
        serviceType: manageddevice
        configContent: string
        templateStandard: nso
        tenantAccess:
          tenantIds: []
          global: true
        id: 031c3a01-8419-41ac-b356-5f98eb53f944
        userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
        createdOn: 2020-08-06T19:42:17.684Z
      schema:
        $ref: '#/components/schemas/DeviceTemplate'
      description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns a device template.
tags:
- Device Templates
/manage/api/v8/devicetemplates/{id}/access:
put:
operationId: updateDeviceTemplateAccess
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
requestBody:
content:
application/json:
example:
  templateId: 49baa22e-9c25-4adc-ae30-21153965ea66
tenantIds:
  - e6d0e662-ed66-43ab-977a-35efc6cafe10
schema:
  $ref: '#/components/schemas/DeviceTemplateAccess'
required: true
responses:
"200":
content:
application/json:
example:
  successListOfTenants:
    - e6d0e662-ed66-43ab-977a-35efc6cafe10
  failureListOfTenants: []
schema:
  $ref: '#/components/schemas/DeviceTemplateAccessResponse'
description: OK
"400":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Updates device template access.
tag:
  - Device Templates
/manage/api/v8/services:
  get:
    operationId: getServicesPage
    parameters:
      - allowEmptyValue: false
        explode: true
        in: query
        name: tenantIds
        required: false
        schema:
          items:
            format: uuid
            type: string
            type: array
            style: form
      - explode: true
        in: query
        name: page
        required: true
        schema:
          example: 0
          format: int32
          minimum: 0
          type: integer
          style: form
      - explode: true
        in: query
name: pageSize
required: true
schema:
  example: 10
  format: int32
  maximum: 1000
  minimum: 1
  type: integer
  style: form
responses:
  "200":
    content:
      application/json:
        example:
          page: 0
          pageSize: 10
          hasNext: false
          hasPrevious: false
          contents:
          - id: 3d9211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
            providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
            tenantId: 3d9211e-3095-489f-a5df-87780bb99fd
            userId: fbcf7fa8-7cf8-42ce-8704-c66cfa42df9d
            subscriptionId: 3d9211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
            tenantName: 3d9211e-3095-489f-a5df-87780bb99fd
            createdOn: 2020-08-06T20:26:45.956Z
            status:
              lifeCycleStatus: Ordering
              definitionAttributes:
                name: manageddevice
                id: 5872e764-c459-11e7-abc4-ec278b6b50a
                offerName: cisco.consume.service.manageddevice.label
                type: manageddevice
                attributes:
                  template: manageddevice-2.0.ftl
                  orchestrator: ncs
                  incomplete: "true"
                  version: "1"
          - id: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
            providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
            tenantId: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
            userId: 876a8f91-ba41-40e5-813d-c2688baebd1a
            subscriptionId: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
            tenantName: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
            createdOn: 2020-08-06T20:22:56.414Z
            status:
              lifeCycleStatus: Ordering
              definitionAttributes:
name: manageddevice
id: 5872e764-c459-11e7-abc4-cec278b6b50a
offerName: cisco.consume.service.manageddevice.label
type: manageddevice
attributes:
  template: manageddevice-2.0.ftl
  orchestrator: ncs
  incomplete: "true"
  version: "1"
- id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  tenantId: 985b22a2-00a8-4cea-b9ed-50c76b2b5949
  userId: c0c3eff0-d5d5-11ea-b88a-a7053c652ef4
  subscriptionId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
  tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159
  createdOn: 2020-08-04T21:01:47.148Z
  provisionedOn: 2020-08-04T21:01:47.093Z
  status:
    lifeCycleStatus: Provisioned
definitionAttributes:
  name: Managed Device
  id: 5872e764-c459-11e7-abc4-cec278b6b50a
  offerName: Managed Device
type: manageddevice
attributes:
  template: manageddevice-2.0.ftl
  orchestrator: ncs
  platform-service-instance-id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
  devices: 
    
- id: b33666428865-5d0511e7935d41dc8288f7c76a4fbf3c-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  tenantId: b3366642-8865-407f-a8e3-5fa56868f74f
  userId: 5915c0c4-8b9b-4480-b034-5fca26ef6c7e
  subscriptionId: b33666428865-5d0511e7935d41dc8288f7c76a4fbf3c-manageddevice
  tenantName: b3366642-8865-407f-a8e3-5fa56868f74f
  createdOn: 2020-08-06T20:26:44.819Z
status:
  lifeCycleStatus: Ordering
definitionAttributes:
  name: manageddevice
  id: 5872e764-c459-11e7-abc4-cec278b6b50a
  offerName: cisco.consume.service.manageddevice.label
type: manageddevice
attributes:
  template: manageddevice-2.0.ftl
  orchestrator: ncs
  incomplete: "true"
  version: "1"
schema:
  $ref: '#/components/schemas/ServicesPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of services.
tags:
- Services
post:
  operationId: submitOrder
  parameters:
  - explode: true
    in: query
    name: productId
required: true
schema:
  format: uuid
  type: string
  style: form
- explode: true
  in: query
  name: offerId
required: true
schema:
  format: uuid
  type: string
  style: form
requestBody:
  content:
    application/json:
      example:
        type: request
        serviceType: manageddevice
        action: orderOffer
        payload:
          service:
            template: manageddevice-2.0.ftl
            orchestrator: ncs
            incomplete: "true"
            name: manageddevice
            id: 5872e764-c459-11e7-abc4-cec278b6b50a
            type: manageddevice
            version: "1"
          tenant:
            id: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
            name: b2b77db8-db9-46b4-8db5-6da58b36984e
          user:
            name: Super
            id: superuser
          provider:
            id: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
            name: CiscoSystems
          offer:
            id: 627a75ec-c459-11e7-abc4-cec278b6b50a
            name: cisco.consume.service.manageddevice.label
            type: full
            label: cisco.consume.manageddevice.offer.manageddevice.full
          cost:
            deviceTotal: "0"
            deviceTotalType: USD
            serviceTotal: "0"
            serviceTotalType: USD
subscriptionDetail:
sites: []
serviceInstanceDetail:
tenantId: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
tenantName: b2b77db8-dbd9-46b4-8db5-6da58b36984e
serviceDowngrade: {}
sResponseTypes:
createOperation: pnp
updateOperation: pnp
deleteOperation: pnp
schema:
  $ref: '#/components/schemas/LegacyServiceOrder'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          message: Order submitted successfully.
          transactionUUID: a25a8111-bced-4446-a9ad-d681b13d1b2d
          subscriptionId: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
          url: /v1/services/5872e764-c459-11e7-abc4-cec278b6b50a/offers/627a75ec-c459-11e7-abc4-cec278b6b50a
          status: success
          serviceInstanceIds:
            - 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice
          sites: []
          schema:
            $ref: '#/components/schemas/LegacyServiceOrderResponse'
description: Created
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthorized

---
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
      summary: Submits an order.
      tags:
        - Services
      put:
        operationId: updateOrder
        parameters:
          - explode: true
            in: query
            name: productId
            required: true
            schema:
              format: uuid
              type: string
              style: form
          - explode: true
            in: query
            name: offerId
            required: true
            schema:
              format: uuid
              type: string
              style: form
        requestBody:
          content:
            application/json:
              example:
                type: request
                serviceType: manageddevice
                action: orderOffer
                payload:
                  service:
                    template: manageddevice-2.0.ftl
                    orchestrator: ncs
                    incomplete: "true"
                    name: manageddevice
                    id: 5872e764-c459-11e7-abc4-cec278b6b50a
                    type: manageddevice
                    version: "1"
                    tenant:
                      id: b3366642-8865-407f-a8e3-5fa56868f74f
                      name: 717fc5a0-e515-40dd-a2a9-2436d0b7af74
                      user:
name: Super
id: superuser
provider:
  id: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  name: CiscoSystems
offer:
  id: 627a75ec-c459-11e7-abc4-cec278b6b50a
  name: cisco.consume.service.manageddevice.label
  type: full
  label: cisco.consume.manageddevice.offer.manageddevice.full
cost:
  deviceTotal: "0"
  deviceTotalType: USD
  serviceTotal: "0"
  serviceTotalType: USD
subscriptionDetail:
sites: []
serviceInstanceDetail:
  tenantId: b3366642-8865-407f-a8e3-5fa56868f74f
  tenantName: 717fc5a0-e515-40dd-a2a9-2436d0b7af74
  serviceDowngrade: {}
nsoResponseType:
  createOperation: pnp
  updateOperation: pnp
  deleteOperation: pnp
schema:
  $ref: '#/components/schemas/LegacyServiceOrder'
  required: true
  responses:
    "200":
      content:
        application/json:
          example:
            message: Edit order submitted successfully.
            transactionUUID: 15acc700-dcba-4ece-85f5-0e2da9034019
            url: /v1/services/5872e764-c459-11e7-abc4-cec278b6b50a/offers/627a75ec-c459-11e7-abc4-cec278b6b50a
            status: success
            serviceInstanceIds:
              - 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
            sites: []
            schema:
              $ref: '#/components/schemas/LegacyServiceOrderResponse'
              description: OK
    "400":
      content:
        application/json:
          schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates an order.
tags:
  - Services
/manage/api/v8/services/{id}:
delete:
  operationId: deleteService
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Deletes a service.
tags:
- Services
get:
  operationId: getService
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
            providerId: fe3ad89e-449f-42f2-b4f8-b10ab7bc0266
            tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
            userId: c0c3c0ff0-d5d5-11ea-b88a-a7053c652ef4
            subscriptionId: d5c9dc30232-4e8677d462dd49cab5298731a94c2da0-manageddevice
            tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159
            createdOn: 2020-08-04T21:01:47.148Z
            provisionedOn: 2020-08-04T21:01:47.093Z
            status:
              lifeCycleStatus: Provisioned
definitionAttributes:
name: Managed Device
offerName: Managed Device
id: 5872e764-c459-11e7-abc4-cec278b6b50a
type: manageddevice
attributes:
  template: manageddevice-2.0.ftl
  orchestrator: ncs
  platform-service-instance-id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
devices: [{"status-message":"Operation ADD on device CPE-828dc62-2345-4b8f-b5af-5db230a95cd3 with serial number 97K7C3YDPY1 was a SUCCESS","name":"CPE-828dc62-2345-4b8f-b5af-5db230a95cd3","attributes": [{"attrib-name":"ipaddress","attrib-value":"10.254.0.1"},{"attrib-name":"hostname","attrib-value":"CPE-828dc62-2345-4b8f-b5af-5db230a95cd3"},{"attrib-name":"subtype","attrib-value":"ISR"},{"attrib-name":"name","attrib-value":"CPE-828dc62-2345-4b8f-b5af-5db230a95cd3"},{"attrib-name":"ned-id","attrib-value":"cisco-ios-cli-6.37"},{"attrib-name":"model","attrib-value":"CSR1000V"},{"attrib-name":"serialKey","attrib-value":"97K7C3YDPY1"},{"attrib-name":"type","attrib-value":"CPE"},{"attrib-name":"category","attrib-value":"CPE"},{"attrib-name":"version","attrib-value":"16.9.5"},{"operation":"ADD","status":"SUCCESS"}]
  name: CPE-828dc62-2345-4b8f-b5af-5db230a95cd3
  provisionTimestamp: Tue Aug 04 21:01:47 UTC 2020
  provisionTimestampNumber: "1596574907112"
  version: "1"
schema:
  $ref: '#/components/schemas/Service'
description: Success
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a service.
tag:
- Services

/manage/api/v8/sites:
get:
  operationId: getSitePage
  parameters:
  - explode: true
    in: query
    name: tenantId
    required: false
    schema:
      format: uuid
      type: string
      style: form
  - explode: true
    in: query
    name: serviceId
    required: false
    schema:
      type: string
      style: form
  - explode: true
    in: query
    name: serviceType
    required: false
    schema:
      type: string
      style: form
  - explode: true
    in: query
    name: deviceId
    required: false
    schema:
      type: string
      style: form
  - explode: true
    in: query
    name: parentId
    required: false
    schema:
      type: string
      style: form
  - explode: true
    in: query
    name: type
    required: false
    schema:
- id: 83e31860-d699-11ea-ab1f-85a66520c057
tenantId: 3ae1903b-a43e-4c18-9d01-983ef3b82eb5
name: Site One
description: A great description of site one.
image: ""
devices: []
status:
  type: health
  name: healthStatus
  value: unknown
  severity: "3"
lastUpdated: 2020-08-04T21:29:01.927Z
lastUpdatedMessage: unknown
createdOn: 2020-08-04T21:29:01.929Z
createdBy: 2817602d-ef21-49e3-acf6-f6c8f15a8d90
modifiedOn: 2020-08-04T21:29:01.929Z
modifiedBy: 2817602d-ef21-49e3-acf6-f6c8f15a8d90
- id: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f
tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
name: Site Two
description: A great description of site two.
image: ""
attributes:
  tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159
  contactEmail: ""
  contactName: ""
  latitude: "43.6411344"
siteDescription: A great description of site two.
location: 88 Queens Quay W, Toronto, ON M5J, Canada
longitude: -79.3770346

devices:
- deviceId: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
  serviceId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
  serviceType: manageddevice
location:
  latitude: 43.6411344
  longitude: -79.37703469999997

status:
  type: health
  name: healthStatus
  value: unknown
  severity: "3"
lastUpdated: 2020-08-04T20:59:35.071Z
lastUpdatedMessage: unknown
createdOn: 2020-08-04T20:59:35.084Z
createdBy: superuser
modifiedOn: 2020-08-04T20:59:35.084Z
modifiedBy: superuser
schema:
  $ref: '#/components/schemas/SitesPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a page of Sites. Only one filter is supported at a time.
tags:
- Sites
post:
  operationId: createSite
  requestBody:
    content:
      application/json:
        example:
          tenantId: df50cb47-0348-4bbf-96e6-9d0904008c03
deviceIds: []
name: Your Site Name
description: A description of the site.
schema:
  $ref: '#/components/schemas/SiteCreate'
required: true
responses:
  "201":
    content:
      application/json:
        example:
id: fa1872f0-d824-11ea-ab1f-85a66520c057
tenantId: df50ce47-0348-4bbf-96e6-9d0904008c03
name: Your Site Name
description: A description of the site.
attributes: {} 
devices: []
status:
  type: health
  name: healthStatus
  value: unknown
  severity: "3"
lastUpdated: 2020-08-06T20:39:51.457707Z
lastUpdatedMessage: unknown
createdOn: 2020-08-06T20:39:51.460741Z
createdBy: 4d291eb4-bf0c-4ab2-b28e-5d0623a22964
modifiedOn: 2020-08-06T20:39:51.460741Z
modifiedBy: 4d291eb4-bf0c-4ab2-b28e-5d0623a22964
schema:
  $ref: '#/components/schemas/Site'
description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Creates a new site.
tags:
- Sites
/manage/api/v8/sites/{id}:
delete:
operationId: deleteSite
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Internal Server Error
summary: Deletes a site.
tags:
- Sites
get:
operationId: getSite
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  - explode: true
    in: query
    name: showImage
    required: false
    schema:
      default: false
      type: boolean
      style: form
responses:
  "200":
    content:
      application/json:
        example:
          id: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f
          tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949
          name: Site Two
          description: A great description of site two.
          image: ""
          attributes:
            tenantName: d5e9dc30-0232-499b-a8f3-3962c3138159
            contactEmail: ""
            contactName: ""
            latitude: "43.6411344"
            siteDescription: A great description of site two.
            location: 88 Queens Quay W, Toronto, ON M5J, Canada
            longitude: -79.37703469999997
            devices:
              - deviceId: CPE-828decb62-2345-4b8f-b5af-5db230a95cd3
                serviceId: d5e9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
                serviceType: manageddevice
                location:
                  latitude: 43.6411344
                  longitude: -79.37703469999997
                status:
                  type: health
                  name: healthStatus
                  value: unknown
                  severity: "3"
lastUpdated: 2020-08-04T20:59:35.071Z
lastUpdatedMessage: unknown
createdOn: 2020-08-04T20:59:35.084Z
createdBy: superuser
modifiedOn: 2020-08-04T20:59:35.084Z
modifiedBy: superuser

schema:
  $ref: '#/components/schemas/Site'
description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Returns a site.
tag:
  - Sites
	put:
    operationId: updateSite
    parameters:
      - explode: false
        in: path
        name: id
required: true
schema:
  format: uuid
  type: string
  style: simple
- explode: true
in: query
name: sendNotification
required: false
schema:
  default: false
  type: boolean
  style: form
requestBody:
  content:
    application/json:
      example:
        name: Site Three
        description: A new description with better words.
        attributes: {}
      schema:
        $ref: '#/components/schemas/SiteUpdate'
  required: true
responses:
  "200":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Site'
        description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error

summary: Updates a site.
tag:
  - Sites

/manage/api/v8/sites/{id}/devices/{deviceId}:
delete:
  operationId: removeDeviceFromSite
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
        style: simple
    - explode: false
      in: path
      name: deviceId
      required: true
      schema:
        type: string
        style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Removes a device from a site.
tags:
- Sites
put:
operationId: addDeviceToSite
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
- explode: false
  in: path
  name: deviceId
  required: true
  schema:
    type: string
    style: simple
- explode: true
  in: query
  name: sendNotification
  required: false
  schema:
    default: false
    type: boolean
    style: form
responses:
  "200":
    content:
      application/json:
        example:
          id: ec53d570-d828-11ea-ab1f-85a66520c057
          tenantId: 66290b34-91cb-42fe-9821-c2f8007b8af3
          name: Site Three
          description: This is the best site description.
          devices:
            - deviceId: 8352c1f7-6683-4514-8ab3-1dfe8d74d800
              serviceId: Unknown
              serviceType: manageddevice
          status:
            type: health
            name: healthStatus
            value: unknown
            severity: "3"
            lastUpdated: 2020-08-06T21:08:06.345Z
            lastUpdatedMessage: unknown
            createdOn: 2020-08-06T21:08:06.348Z
            createdBy: superuser
            modifiedOn: 2020-08-06T21:08:07.230928Z
            modifiedBy: a2dc0081-3fe1-4c99-8daf-736bfdbab7546
          schema:
            $ref: '#/components/schemas/Site'
          description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
/monitor/api/v8/health/devices/list:
  get:
    operationId: getDevicesHealthList
    parameters:
      - explode: true
        in: query
        name: ids
        required: true
        schema:
          items:
            type: string
            minItems: 1
            type: array
          style: form
    responses:
      "200":
        content:
          application/json:
            schema:
              items:
                $ref: '#/components/schemas/ResourceHealth'
              type: array
            description: OK
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Bad Request
      "401":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Unauthenticated
      "403":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Unauthenticated
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
tags:
  - Health
/monitor/api/v8/health/services/list:
get:
  operationId: getServicesHealthList
  parameters:
    - explode: true
      in: query
      name: ids
      required: true
      schema:
        items:
          type: string
          minItems: 1
          type: array
        style: form
  responses:
    "200":
      content:
        application/json:
          schema:
            items:
              $ref: '#/components/schemas/ResourceHealth'
              type: array
            description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
            description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
            description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error

tags:
  - Health
/idm/v2/token:
  post:
    operationId: getAccessToken
    parameters:
      - explode: false
        in: header
        name: Authorization
        required: true
        schema:
          type: string
          style: simple
    requestBody:
      content:
        application/x-www-form-urlencoded:
          schema:
            $ref: '#/components/schemas/body'
    responses:
      "200":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/AccessToken'
            description: OK
      default:
        description: Failed
        summary: Returns an access token.
        tags:
          - Security
/idm/api/v8/roles/list:
  get:
    operationId: getRolesList
    parameters:
      - explode: true
        in: query

name: ids
required: true
schema:
  items:
    format: uuid
    type: string
    type: array
  style: form
responses:
  "200":
    content:
      application/json:
        example:
          - id: c089f00-d5d5-11ea-b88a-a7053c652ef4
            name: CONSUMER
            description: Tenant Administrators have Tenant Operator-level permissions, and can also perform more advanced tasks like managing service policies and configurations.
            permissions:
              - DEVICE_MANAGEMENT
              - EXPORT_SERVICE
              - MANAGE_CATEGORY
              - MANAGE_DEVICES
              - MANAGE_DEVICE_SECRETS
              - MANAGE_INCIDENT
              - MANAGE_MD_DEVICE_MODELS
              - MANAGE_MD_SITES
              - MANAGE_REMOTE_USERS
              - MANAGE_SCHEDULE_TASK
              - MANAGE_SERVICES
              - MANAGE_SERVICE_CONFIG_APPLICATION
              - MANAGE_SITES
              - MANAGE_TARGET
              - MANAGE_WORKFLOW
              - MANAGE_WORKFLOW_INSTANCE
              - ORDER_SERVICE
              - SWITCH_TENANT
              - SWITCH_TENANT_UI
              - VBRANCH_DEVICE_ACCESS
              - VBRANCH_MANAGE_SITE
              - VBRANCH_MANAGE_TEMPLATE
              - VBRANCH_MANAGE_TEMPLATE_DATA
              - VBRANCH_VIEW_SITES
              - VIEW_ALERT_SERVICE
              - VIEW_ALL_TEMPLATES
              - VIEW_BUILD_INFO
              - VIEW_CATEGORY
              - VIEW_CONTACT
- VIEW_CONTROL_PLANE
- VIEW_DASHBOARD
- VIEW_DEVICES
- VIEW_DEVICE_RUNNING_CONFIG
- VIEWDEVICESECRETS
- VIEWDOCUMENTATION
- VIEW_END_USER
- VIEW_EVENTLOG
- VIEW_EXTENSION_PARAMETERS
- VIEW_INCIDENT
- VIEW_INTEGRATION
- VIEW_LOCALE
- VIEW_LOCALE_STRING
- VIEW_MAINTENANCE_INFO
- VIEW_MD_DEVICE_MODELS
- VIEW_MD_METRICS
- VIEW_MD_PARAMETERS
- VIEW_MD_SITES
- VIEW_METRICS
- VIEW_PRICE_PLAN
- VIEW_PROVIDER
- VIEW_REMOTE_USERS
- VIEW_RESOURCES_UI
- VIEW_RUNNING_CONFIG
- VIEW_SCHEDULE_TASK
- VIEW_SECURITY_SETTING
- VIEW_SENSITIVE_SERVICE_CONFIG_ASSET_DETAIL
- VIEW_SERVICES
- VIEW_SERVICE_CONFIG_APPLICATION
- VIEW_SERVICE_CONFIG_ASSET
- VIEW_SERVICE_CONFIG_ASSIGNMENT
- VIEW_SERVICE_CONFIG_AUDIT
- VIEW_SERVICE_EXTENSION
- VIEW_SITES
- VIEW_STATUS
- VIEW_SUBscriptions_UI
- VIEW_TARGET
- VIEW_TENANT
- VIEW_TERMS_CONDITIONS
- VIEW_WORKFLOW
- VIEW_WORKFLOW_INSTANCE
- id: c08874a0-11ea-b88a-a7053c652ef4
name: OPERATOR
description: Service Provider Operators support multiple customers by maintaining service information and settings, viewing / monitoring the SP-DNA platform, remediating basic customer issues and escalating more serious ones.
permissions:
- ACCESS_ALL_TENANTS
- ACCESS_DEVICE_TERMINAL
- DEVICE_MANAGEMENT
- EXPORT_SERVICE
- MANAGE_ALERT_SERVICE
- MANAGE_BULK_IMPORT
- MANAGE_CONTROL_PLANE
- MANAGE_DEVICES
- MANAGE_DEVICE_SECRETS
- MANAGE_INCIDENT
- MANAGE_INTEGRATION
- MANAGE_MAINTENANCE_INFO
- MANAGE_MD_DEVICE_MODELS
- MANAGE_MD_SITES
- MANAGE_METADATA
- MANAGE_METRICS
- MANAGE_METRIC_TEMPLATES
- MANAGE_NOTIFICATION
- MANAGE_NSO
- MANAGE_PROVIDER
- MANAGE_SCHEDULE_TASK
- MANAGE_SECRET_POLICIES
- MANAGE_SERVICES
- MANAGE_SERVICETYPES
- MANAGE_SERVICE_CONFIG_APPLICATION
- MANAGE_SERVICE_CONFIG_ASSET
- MANAGE_SERVICE_CONFIG_ASSIGNMENT
- MANAGE_SITES
- MANAGE_SLM
- MANAGE_SYSTEM_SECRETS
- MANAGE_TARGET
- MANAGE_TEMPLATES
- MANAGE_TENANT
- MANAGE_TERMS_CONDITIONS
- MANAGE_WORKFLOW_EVENT
- MANAGE_WORKFLOW_INSTANCE
- MANAGE_WORKFLOW_RUNTIME_USER
- MANAGE_WORKFLOW_SCHEDULE
- MANAGE_WORKFLOW_TABLE
- MANAGE_WORKFLOW_TABLE_TYPE
- MANAGE_WORKFLOW_VARIABLE
- ORDER_SERVICE
- REGISTER_DEVICES
- REGISTERDEVICE_ACTION
- SUSPEND_TENANT
- SWITCH_TENANT
- SWITCH_TENANT_UI
- UPGRADE_DEVICES
- VBRANCH_DEVICE_ACCESS
- VBRANCH_MANAGE_SETTINGS
- VBRANCH_MANAGE_SITE
- VBRANCH_MANAGE_TEMPLATE
- VBRANCH_MANAGE_TEMPLATE_DATA
- VBRANCH_VIEW_SITES
- VIEW_ALERT_SERVICE
- VIEW_ALL_TEMPLATES
- VIEW_BUILD_INFO
- VIEW_BULK_IMPORT
- VIEW_COMPONENT_METRICS
- VIEW_COMPONENT_STATUS
- VIEW_CONTACT
- VIEW_CONTROL_PLANE
- VIEW_DASHBOARD
- VIEW_DEVICES
- VIEW_DEVICE_RUNNING_CONFIG
- VIEW_DEVICE_SECRETS
- VIEW_DOCUMENTATION
- VIEW_END_USER
- VIEW_EVENTLOG
- VIEW_EXTENSION_PARAMETERS
- VIEW_INCIDENT
- VIEW_INTEGRATION
- VIEW_LOCALE
- VIEW_LOCALE_STRING
- VIEW_MAINTENANCE_INFO
- VIEW_MD_DEVICE_MODELS
- VIEW_MD_METRICS
- VIEW_MD_PARAMETERS
- VIEW_MD_SITES
- VIEW_METADATA
- VIEW_METRICS
- VIEW_METRIC_TEMPLATES
- VIEW_NOTIFICATION
- VIEW_NSO
- VIEW_OPERATOR_LOGIN_AS_CUSTOMER
- VIEW_OPERATOR_SERVICES
- VIEW_OPERATOR_SITES
- VIEW_PRICE_PLAN
- VIEW_PROVIDER
- VIEW_REMOTE_USERS
- VIEW_ROLE
- VIEW_RUNNING_CONFIG
- VIEW_SCHEDULE_TASK
- VIEW_SECRET_POLICIES
- VIEW_SECURITY_SETTING
- VIEW_SENSITIVE_SERVICE_CONFIG_ASSET_DETAIL
- VIEW_SERVICES
- VIEW_SERVICE_CONFIGURATION_UI
- VIEW_SERVICE_CONFIG_APPLICATION
- VIEW_SERVICE_CONFIG_ASSET
- VIEW_SERVICE_CONFIG_ASSIGNMENT
- VIEW_SERVICE_CONFIG_AUDIT
- VIEW_SERVICE_EXTENSION
- VIEW_SITES
- VIEW_SLM
- VIEW_STATUS
- VIEW_SYSTEM_SECRETS
- VIEW_TARGET
- VIEW_TENANT
- VIEW_TERMS_CONDITIONS
- VIEW_WORKFLOW_EVENT
- VIEW_WORKFLOW_INSTANCE
- VIEW_WORKFLOW_RUNTIME_USER
- VIEW_WORKFLOW_SCHEDULE
- VIEW_WORKFLOW_TABLE
- VIEW_WORKFLOW_TABLE_TYPE
- VIEW_WORKFLOW_VARIABLE

schema:
  items:
    $ref: '#/components/schemas/Role'
  type: array
  description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Returns a list of roles.

tags:
  - Roles

/idm/api/v8/roles/name/{name}:

get:

operationId: getRoleByName

parameters:

  - example: CONSUMER
    explode: false
    in: path
    name: name
    required: true
    schema:
      type: string
      style: simple

responses:

  "200":

content:

  application/json:

    example:
      id: c0895f00-d5d5-11ea-b88a-a7053c652ef4
      name: CONSUMER
      description: Tenant Administrators have Tenant Operator-level permissions, and can also perform more advanced tasks like managing service policies and configurations.
      permissions:
        - DEVICE_MANAGEMENT
        - EXPORT_SERVICE
        - MANAGE_CATEGORY
        - MANAGE_DEVICES
        - MANAGE_DEVICE_SECRETS
        - MANAGE_INCIDENT
        - MANAGE_MD_DEVICE_MODELS
        - MANAGE_MD_SITES
        - MANAGE_REMOTE_USERS
        - MANAGE_SCHEDULE_TASK
        - MANAGE_SERVICES
        - MANAGE_SERVICE_CONFIG_APPLICATION
        - MANAGE_SITES
        - MANAGE_TARGET
        - MANAGE_WORKFLOW
        - MANAGE_WORKFLOW_INSTANCE
        - ORDER_SERVICE
        - SWITCH_TENANT
        - SWITCH_TENANT_UI
        - VBRANCH_DEVICE_ACCESS
- VIEW_WORKFLOW
- VIEW_WORKFLOW_INSTANCE

schema:
  $ref: '#/components/schemas/Role'

description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error

summary: Returns a role by name.
tags:
- Roles

/fdm/api/v8/tenants:
get:
  operationId: getTenantsPage
  parameters:
    - explode: true
      in: query
      name: parentId
      required: false
      schema:
        format: uuid
Open Source Used In MSX SD-WAN Service Pack 4.0.0  1694
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Creates a new tenant.
tags:
- Tenants
/idm/api/v8/tenants/list:
  get:
    operationId: getTenantsList
    parameters:
      - explode: true
        in: query
        name: ids
        required: true
        schema:
          items:
            format: uuid
            type: string
        type: array
        style: form
      - explode: true
        in: query
        name: showImage
        required: false
        schema:
          default: false
          type: boolean
          style: form
    responses:
      "200":
        content:
          application/json:
example:
- id: ea7e39f2-863a-41b8-a6eb-6d730bc200b0
  creationOn: 2020-08-05T21:29:46.782Z
  modifiedOn: 2020-08-05T21:29:46.782Z
  suspended: false
  name: Acme Company
  description: An anvil for every roadrunner.
  url: https://cisco.com
  numberOfChildren: 0
- id: b32fc309-1e42-4769-81be-dfda6a249b6f
  creationOn: 2020-08-06T20:59:52.19Z
  modifiedOn: 2020-08-06T20:59:52.19Z
  suspended: false
  name: Monsters Incorporated
  description: Things that go bump in the night.
  url: https://cisco.com
  numberOfChildren: 0
- id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
  creationOn: 2020-08-04T21:28:03.665Z
  modifiedOn: 2020-08-04T21:28:03.665Z
  suspended: false
  name: Alta Motors
  description: The future of fast.
  url: https://cisco.com
  numberOfChildren: 0

schema:
  items:
    $ref: '#/components/schemas/Tenant'
  type: array
  description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
        description: Internal Server Error
  summary: Returns a list of tenants.
  tags:
  - Tenants
/idm/api/v8/tenants/{id}:
  delete:
    operationId: deleteTenant
    parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
        style: simple
    responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
            description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
            description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
            description: Unauthorized
    "404":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
            description: Not Found
"409":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Conflict
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Deletes a tenant by id.
tags:
  - Tenants
get:
  operationId: getTenant
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
responses:
"200":
  content:
    application/json:
      example:
        id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
        createdOn: 2020-08-04T21:28:03.665Z
        modifiedOn: 2020-08-04T21:28:03.665Z
        suspended: false
        name: Alta Motors
        description: The future of fast.
        url: https://cisco.com
        numberOfChildren: 0
      schema:
        $ref: '#/components/schemas/Tenant'
      description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error

summary: Returns a tenant by id.

tags:
  - Tenants

put:
  operationId: updateTenant
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
      style: simple
  requestBody:
    content:
      application/json:
        example:
          name: Acme Company
          description: We sell rocket powered rollerskates.
          url: https://cisco.com
        schema:
          $ref: '#/components/schemas/TenantUpdate'
        required: true
responses:
"200":
  content:
    application/json:
      example:
        id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
        createdOn: 2020-08-04T21:28:03.665Z
        modifiedOn: 2020-08-04T21:28:03.665Z
        suspended: false
        name: Acme Company
        description: We sell rocket powered rollerskates.
        url: https://cisco.com
        numberOfChildren: 0
      schema:
        $ref: '#/components/schemas/Tenant'
      description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Updates a tenant by id.
tags:
- Tenants

/ids/api/v8/users:

get:

  operationId: getUsersPage
  parameters:
  - explode: true
    in: query
    name: tenantId
    required: false
    schema:
      format: uuid
      type: string
      style: form
  - explode: true
    in: query
    name: deleted
    required: false
    schema:
      type: boolean
      style: form
  - explode: true
    in: query
    name: page
    required: true
    schema:
      example: 0
      format: int32
      minimum: 0
      type: integer
      style: form
  - explode: true
    in: query
    name: pageSize
    required: true
    schema:
      example: 10
      format: int32
      maximum: 1000
      minimum: 1
      type: integer
      style: form

responses:
  "200":
    content:
      application/json:
        example:
          page: 0
          pageSize: 3
totalItems: 47
hasNext: false
hasPrevious: false
contents:
- id: 2415ed27-5d23-4888-8757-a33acad12eed
  status: "true"
  deleted: "false"
  username: TBaker
  firstName: Tom
  lastName: Baker
  email: noreply@cisco.com
  roleIds:
  - c08b33c0-d5d5-11ea-b88a-a7053c652ef4
  tenantIds:
  - 11af2b16-90ec-4fef-b8a4-2e57945fe0a2
  passwordPolicyName: ppolicy_default
- id: cff95696-1e3d-42f8-9a1d-9d219f08b944
  status: "true"
  deleted: "false"
  username: JPertwee
  firstName: John
  lastName: Pertwee
  email: noreply@cisco.com
  roleIds:
  - c08b33c0-d5d5-11ea-b88a-a7053c652ef4
  tenantIds:
  - ec56632e-92bc-4d30-b626-f9ee37ee3e0
  passwordPolicyName: ppolicy_default
- id: 9349f90e-b5f8-4c1a-b302-3fda5182123e
  status: "true"
  deleted: "false"
  username: PDavidson
  firstName: Peter
  lastName: Davidson
  email: noreply@cisco.com
  roleIds:
  - c08b33c0-d5d5-11ea-b88a-a7053c652ef4
  tenantIds:
  - 4cc13e9c-61be-4dd1-b50b-bbde5f40a3c4
  passwordPolicyName: ppolicy_default
schema:
  $ref: '#/components/schemas/UsersPage'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Internal Server Error
summary: Returns a page of users.
tags:
- Users
post:
  operationId: createUser
requestBody:
  content:
    application/json:
      example:
        firstName: Tom
        lastName: Baker
        email: noreply@cisco.com
        roleIds:
          - c0895f00-d5d5-11ea-b88a-a7053c652ef4
        tenantIds:
          - 18992931-6ced-4133-9101-da6e4b83a5df
        passwordPolicyName: ppolicy_default
        username: TBaker
        password: Password@1
  schema:
    $ref: '#/components/schemas/UserCreate'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: b6c6e42a-d930-4e3b-ac28-2a337ec570ae
          status: "true"
deleted: "false"
username: TBaker
firstName: Tom
lastName: Baker
email: noreply@cisco.com
roleIds:
- c0895f00-d5d5-11ea-b88a-a7053c652ef4
tenantIds:
- 18992931-6ced-4133-9101-da6e4b83a5df
passwordPolicyName: ppolicy_default
schema:
  $ref: '#/components/schemas/User'
description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new user.
tags:
- Users
/idm/api/v8/users/{id}:
delete:
  operationId: deleteUser
parameters:
- explode: false
  in: path
  name: id
  required: true
get:
operationId: getUser
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
tenantIds:
  - 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
passwordPolicyName: ppolicy_default

schema:
  $ref: '#/components/schemas/User'
description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized

"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Updates an existing user.
tags:
  - Users

/idm/api/v8/users/current:
get:
operationId: getCurrentUser
responses:
"200":
  content:
    application/json:
      example:
        id: 271eaf78-b805-492a-8afb-a53183912728
status: "true"
deleted: "false"
username: JWhittaker
firstName: Jodie
lastName: Whittaker
email: noreply@cisco.com
roleIds:
  - c0895f00-d5d5-11ea-b88a-a7053c652ef4
tenantIds:
  - 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
passwordPolicyName: ppolicy_default
schema:
  $ref: '#/components/schemas/User'
description: OK
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns the current user.
tags:
- Users
/idm/api/v8/users/updatepassword:
  put:
    operationId: updateUserPassword
requestBody:
  content:
    application/json:
      example:
        username: JWhittaker
        oldPassword: Password@1
        newPassword: Password@2
      schema:
        $ref: '#/components/schemas/UpdatePassword'
      required: true
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Update a user password.
tag:
  - Users/workflow/api/v8/workflows:
    post:
      operationId: importWorkflow
      parameters:
        - explode: true
          in: query
          name: tenantId
          required: false
          schema:
            items:
              format: uuid
              type: string
              type: array
              style: form
        - explode: true
          in: query
          name: global
          required: false
schema:
type: boolean
style: form
requestBody:
content:
application/json:
example:
workflow:
unique_name: definition_workflow_1flwhkwsayquzQyyfgyz6tdRoyK2
name: Health Check Atomic
title: Health Check Atomic
type: generic.workflow
base_type: workflow
variables:
- schema_id: 1flwhm42MFVKTV16QCVpzTV3NDL
  properties:
    value: 
    scope: input
    name: service_name
    type: datatype.string
  unique_name: variable_workflow_1flwhkauAJQe4uzBvUDvCBdY2HM
  object_type: variable_workflow
  properties:
  atomic:
    is_atomic: false
delete_workflow_instance: false
display_name: Health Check Atomic
favorite: false
target:
  target_type: web-service.endpoint
  target_id: definition_target_1flwhpkMV95YN7uSm2ygMYsVe2
  execute_on_workflow_target: true
  object_type: definition_workflow
actions:
- unique_name: definition_activity_1flwhq819QYFkMjAfPWDeeg4zliI
  name: HTTP Request
title: HTTP Request
type: web-service.http_request
base_type: activity
properties:
  accept: application/json
  action_timeout: 180
  allow_auto_redirect: true
  content_type: application/json
  continue_on_error_status_code: false
  continue_on_failure: false
  custom_headers:
- name: Content-type
value: application/vnd.spring-boot.actuator.v1+json
display_name: HTTP Request
method: GET
relative_url:
/\$workflow.definition_workflow_1f1whkwsayquzQyyfgz6tdRoyK2.input.variable_workflow_1f1whkauAJ4e4uzBvUDvCBdY2HMS/admin/health
runtime_user:
  override_target_runtime_user: false
target_default: true
target:
  override_workflow_target: false
  use_workflow_target: true
object_type: definition_activity
targets:
definition_target_1f1whpdkMV95YN7uSm2ygMYsVe2:
  unique_name: definition_target_1f1whpdkMV95YN7uSm2ygMYsVe2
  name: Router Service
title: Router Service
type: web-service.endpoint
base_type: target
object_type: definition_target
properties:
  description: Router Service
disable_certificate_validation: true
display_name: Router Service
host: dev-plt-aio1.lab.ciscomsx.com
no_runtime_user: true
port: -1
protocol: https
schema:
  additionalProperties:
    type: object
    required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: 01HTTXYUA72Ei3V0UtQI3ik4QfyaNTB2cvM
tenantIds:
            - c1c7ac2f-9435-41b8-a76e-b23a14c761df
uniqueName: definition_workflow_1f1whkwsayquzQyyfgz6tdRoyK2
createdBy: 46dce7f6-12f1-4c72-a44a-e7964dd8a43e
createdOn: 2020-08-07 13:15:10+0000
modifiedBy: 46dce7f6-12f1-4c72-a44a-e7964dd8a43e
modifiedOn: 2020-08-07 13:15:10+0000
schema:
$ref: '#/components/schemas/WorkflowMapping'

description: Created

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Bad Request

"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Unauthenticated

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Unauthorized

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Imports a workflow.

tags:
  - Workflows

/workflow/api/v8/workflows/list:

get:
  operationId: getWorkflowsList

parameters:
  - explode: true
    in: query
    name: tenantId
    required: false
    schema:
      format: uuid
      type: string
      style: form
  - explode: true
    in: query
    name: atomic
    required: false
    schema:
      default: false
      type: boolean
style: form
responses:
"200":
content:
application/json:
example:
- id: 01HTTZQ6KG8BQ2tgxrwuB2O1NEQ5pTvXjDJ
  name: Health Check Atomic
  type: generic.workflow
  properties:
    atomic:
      is_atomic: false
      delete_workflow_instance: false
    display_name: Health Check Atomic
    favorite: false
  target:
    execute_on_workflow_target: true
    target_id: 01HTTZQI11KK03IHnhzTPwT6MuUHiywECEw
    target_type: 01HQR507N9OPR0y96Flu2i6rdLwOPvMc7Ub
  valid: true
  owner: aoadmin
  categories:
- 01HQR5WWLT5Z6VMcGjscebZOES3psRVR
metadata:
  git_info:
    target_id:"
    commit_hash:"
  status:
    state: import_completed
    schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hii559TOg
    unique_name: definition_workflow_1flwzKmCj9692j0FZRigZxne0fF
    base_type: workflow
    workflow_valid: false
  created_on: 2020-08-07T13:17:28Z
  created_by: aoadmin
  updated_on: 2020-08-07T13:17:30Z
  updated_by: system
- id: 01HTTZRH15EAQ5PbiXaiFmAUySyzw5hUR
  name: Health Check Atomic
  type: generic.workflow
  properties:
    atomic:
      is_atomic: false
      delete_workflow_instance: false
    display_name: Health Check Atomic
    favorite: false
  target:
    execute_on_workflow_target: true
description: Internal Server Error
summary: Returns a list of workflows.
tags:
- Workflows
/workflow/api/v8/workflows/{id}:
delete:
operationId: deleteWorkflow
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Delete a workflow.
tag:
- Workflows
get:
operationId: getWorkflow
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HTU0GSER5I82zXr2yeLADwvAW8tUuTFf6F
          name: Health Check Atomic
          title: Health Check Atomic
          type: generic.workflow
          properties:
            atomic:
              is_atomic: false
              delete_workflow_instance: false
              display_name: Health Check Atomic
              favorite: false
              target:
                execute_on_workflow_target: true
                target_id: 01HTU0H426RSC17R6ryJsiaeuKVTZOBgQPT
                target_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7U
          valid: true
          owner: aoadmin
          categories:
            - 01HQR5WWLT5ZZ6VMTGUNGjscsbZOE3psRVR
          metadata:
            git_info:
              target_id: ""
              commit_hash: ""
            status:
              state: import_completed
          permissions:
            - manage
            - run
          variables:
            - id: 01HTU0GT1SE035ThRGKqPn7hX7hteloFasr
              properties:
value: ""
scope: input
name: service_name
type: datatype.string
is_required: false
unique_name: variable_workflow_1flx6VoaQUDEbTsCa8sPZpYiumZ
created_by: aoadmin
created_on: 2020-08-07T13:18:25Z
updated_by: aoadmin
updated_on: 2020-08-07T13:18:27Z
schema_id: 01HQR50TZJK3M3d09kDOqLnYSywRwovUhAW
object_type: variable_workflow
actions:
- id: 01HTU0HMMQ1LL1U6HB1qddmdfZFP2UEdHoC
  name: HTTP Request
title: HTTP Request
type: web-service.http_request
status:
  state: created
base_type: activity
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hii559T0g
unique_name: definition_workflow_1flx6VX6p91ZUhJHmH2IDqAbr2m
base_type: workflow
workflow_valid: false
created_on: 2020-08-07T13:18:26Z
created_by: aoadmin
updated_on: 2020-08-07T13:18:27Z
updated_by: system
schema:
  $ref: '#/components/schemas/Workflow'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: ‘#/components/schemas/Error’
description: Not Found
"500":
content:
application/json:
schema:
  $ref: ‘#/components/schemas/Error’
description: Internal Server Error
summary: Returns a workflow.
tags:
  - Workflows
put:
operationId: updateWorkflow
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  - explode: true
    in: query
    name: tenantId
    required: false
    schema:
      items:
        format: uuid
        type: string
        type: array
        style: form
      explode: true
      in: query
      name: global
      required: false
      schema:
        type: boolean
        style: form
requestBody:
content:
application/json:
schema:
  additionalProperties:
responses:
"200":
  content:
    application/json:
      example:
        workflow:
          unique_name: definition_workflow_1flxysOQP8K57CCL1jR7JIBgdoi
          name: Health Check Atomic
          title: Health Check Atomic
          type: generic.workflow
          base_type: workflow
          variables:
            - schema_id: datatype.string
              properties:
                value: ""
                scope: input
                name: service_name
                type: datatype.string
                is_required: false
          unique_name: variable_workflow_1flxyrRQ3Pf1Z55c7CAMqmf4dlp
          object_type: variable_workflow
          properties:
            atomic:
              is_atomic: false
            delete_workflow_instance: false
            display_name: Health Check Atomic
            favorite: false
            target:
              target_type: web-service.endpoint
              target_id: definition_target_1flxytXPvWWhm2IP8toycenGNFh
              execute_on_workflow_target: true
          object_type: definition_workflow
          actions:
            - unique_name: definition_activity_1flxytuQqBqqHFtXwfgC5qrFvIF
              name: HTTP Request
              title: HTTP Request
              type: web-service.http_request
              base_type: activity
              properties:
                accept: application/json
                action_timeout: 180
                allow_auto_redirect: true
                content_type: application/json
                continue_on_error_status_code: false
                continue_on_failure: false
                custom_headers:
                  - name: Content-type
                    value: application/vnd.spring-boot.actuator.v1+json
display_name: HTTP Request
method: GET
relative_url:
/\$workflow.definition_workflow_1flxysOQP8K57CCL1jr7JIBgdoi.input.variable_workflow_1flxyrRQ3PF1Z55c7CAMqmfdLLPS/admin/health
runtime_user:
  override_target_runtime_user: false
target_default: true
skip_execution: false
target:
  override_workflow_target: false
  use_workflow_target: true
object_type: definition_activity
categories:
- category_1BMfMXSnJMyt5Ihqi7rWJr5N8cf
targets:
definition_target_1flxytXPvWWHm2IP8toyccnGNFh:
  unique_name: definition_target_1flxytXPvWWHm2IP8toyccnGNFh
  name: Router Service
title: Router Service
type: web-service.endpoint
base_type: target
object_type: definition_target
properties:
  description: Router Service
disable_certificate_validation: true
display_name: Router Service
host: dev-plt-aio1.lab.ciscomsx.com
no_runtime_user: true
port: -1
protocol: https
schema:
  type: string
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
application/json:
  schema:
    $ref: '#/components/schemas/Error'
  description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Exports a workflow.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/start:
  post:
    operationId: startWorkflow
    parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
        style: simple
    - explode: true
      in: query
      name: sync
      required: false
      schema:
        type: boolean
        style: form
    requestBody:
      content:
        application/json:
          example:
            input_variables:
            - id: 01HTU6QBKWSWC7cJcKEAKXek3cjLJoZGYLK
              schema_id: 01HQR50TZJK3M3d09kDOqLnYSywRwovUhAW
              properties:
                value: ""
              scope: input
              name: service_name
type: datatype.string
is_required: false
created_on: 2020-08-07T13:26:36Z
created_by: aoadmin
updated_on: 2020-08-07T13:26:38Z
updated_by: aoadmin
unique_name: variable_workflow_1fly6IL9DWN9dCwPA6W713ef62M
schema:
  $ref: '#/components/schemas/WorkflowStartConfig'
required: true
responses:
  "200":
    content:
      application/json:
        example:
          - id: 01HTU6T8HR4BR2l7fjYz3ByMqmFGN4Hse9P
            type: generic.workflow
            status:
              state: created
              version: 1.0.0
            definition_id: 01HTU6QAYFTCA3epU8esiR4c2anJiZEjaVu
            schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4HiiI559TOg
            base_type: workflow
            created_by: aoadmin
            created_on: 2020-08-07T13:26:43Z
            schema:
              items:
                $ref: '#/components/schemas/StartWorkflowResponse'
type: array
description: OK
"400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
"401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthorized
"403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Starts a workflow.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/startconfig:
  get:
    operationId: getWorkflowStartConfig
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          type: string
          style: simple
    responses:
      "200":
        content:
          application/json:
            example:
              input_variables:
                - id: 01HTU9YNVH2UU7MiSA3LV7IwrhUSmShOCmm
                  properties:
                    value: ""
                    scope: input
                    name: service_name
                    type: datatype.string
                    is_required: false
                    unique_name: variable_workflow_1flyc1ZeuyYwBmXGcxEULkCPN0
                    created_by: aoadmin
                    created_on: 2020-08-07T13:30:50Z
                    updated_by: aoadmin
                    updated_on: 2020-08-07T13:30:51Z
                    schema_id: 01HQR50TZJK3M3d09kDOqLnyYSywRwovU9AW
                    schema:
                      $ref: '#/components/schemas/WorkflowStartConfig'
            description: OK
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"400":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow start config.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/validate:
post:
opera
parameters:
- explode: false
  in: path
  name: id
required: true
  schema:
    type: string
    style: simple
responses:
"200":
content:
application/json:
example:
  total_actions: 2
  total_valid: 2
  workflow_valid: true
schema:
  $ref: '#/components/schemas/ValidateWorkflowResponse'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Validates a workflow.
tags:
  - Workflows
/workflow/api/v8/categories:
  post:
    operationId: createWorkflowCategory
    parameters:
      - explode: true
        in: query
        name: tenantId
        required: false
description: Unauthenticated
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new workflow category.
tags:
- Workflow Categories
/workflow/api/v8/categories/list:
get:
operationId: getWorkflowCategoriesList
parameters:
- explode: true
  in: query
  name: tenantId
  required: false
  schema:
    format: uuid
    type: string
    style: form
responses:
"200":
content:
application/json:
example:
- id: 01HTUOXAQLT3B4ddnGJ3JG1Yy3eGEu8kh99
  name: Category One
  title: Category One
  type: basic.category
  description: A description of category one.
  owner: aoadmin
  schema_id: 01HQR4T0U6YBE7USwHqiUhXogAACos2iac6
  base_type: category
  category_type: custom
  created_on: 2020-08-07T13:50:22Z
  created_by: aoadmin
  updated_on: 2020-08-07T13:50:22Z
  updated_by: aoadmin
  unique_name: category_01HTUOXB3RHY61AvZ3WyHhp2FJlc64d3aR1
  schema:
items:
  $ref: '#/components/schemas/WorkflowCategory'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow categories.
tags:
- Workflow Categories
/workflow/api/v8/categories/{id}:
delete:
  operationId: deleteWorkflowCategory
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
summary: Deletes a workflow category.

get:

operationId: getWorkflowCategory

parameters:
- explode: false
in: path
name: id
required: true

responses:
"200":
content:
application/json:
example:
  id: 01HTUQ4UK2ON01Pxm88QXs1Q65X3bb22I0A
  name: Category One
  title: Category One
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type: basic.category
description: A description of category one.
owner: aoadmin
schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
base_type: category
category_type: custom
created_on: 2020-08-07T13:51:57Z
created_by: aoadmin
updated_on: 2020-08-07T13:51:57Z
updated_by: aoadmin
unique_name: category_01HTUQ4UY5RQL38MHgO1rEb2nl57kYwMOio
schema:
  $ref: '#/components/schemas/WorkflowCategory'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow category.
tags:
  - Workflow Categories
put:
operationId: updateWorkflowCategory
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
        name: New Category Name
        title: New Category Title
        description: A much better description than before.
        schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
        schema:
          $ref: '#/components/schemas/WorkflowCategoryUpdate'
      required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HTUQXABYWKQ00Pe1CG88H4AU5vNgVWtOzz
          name: New Category Name
          title: New Category Title
          type: basic.category
          description: A much better description than before.
          owner: aoadmin
          schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
          base_type: category
          category_type: custom
          created_on: 2020-08-07T13:52:59Z
          created_by: aoadmin
          updated_on: 2020-08-07T13:53:01Z
          updated_by: aoadmin
          unique_name: category_01HTQXANSV4T7DJ4fBqjAMS0MkJGWVCLFY
          schema:
            $ref: '#/components/schemas/WorkflowCategory'
          description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Updates a workflow category.
tags:
  - Workflow Categories
/workflow/api/v8/events:
  post:
    operationId: createWorkflowEvent
    requestBody:
      content:
        application/json:
          example:
            title: Event One
            description: This is not the description you are looking for.
            target_id: 01HTUSVW1CT4X66ht5sueGVrOatrKeh8wkK
            schema_id: 01HQR51UJFSML2CKLOFnmYq7YgGQIgzmvHx
          properties:
            title: Event One
            target_id: 01HTUSVW1CT4X66ht5sueGVrOatrKeh8wkK
            topic_name: TEST_TOPIC
          schema:
            $ref: '#/components/schemas/WorkflowEventCreate'
          required: true
    responses:
      "201":
        content:
application/json:

element:

d: 01HTUTXJM9WJO68qILCTXsVTsMvzwBOU3NTm
name: Event One

title: Event One

type: kafka.event

properties:

target_id: 01HTUSVW1CT466ht5sueGVr0atrKeh8wkK

title: Event One

topic_name: TEST_TOPIC

owner: aoadmin

base_type: event

schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx

created_on: 2020-08-07T13:56:55Z

created_by: aoadmin

updated_on: 2020-08-07T13:56:55Z

updated_by: aoadmin

unique_name: event_01HTUTXMUZK5K4e9DkbweSjca3gD5vpiKVq

schema:

$ref: '#/components/schemas/WorkflowEvent'

description: Created

"400":

ccontent:

application/json:

schema:

$ref: '#/components/schemas/Error'

description: Bad Request

"401":

ccontent:

application/json:

schema:

$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

ccontent:

application/json:

schema:

$ref: '#/components/schemas/Error'

description: Unauthorized

"500":

ccontent:

application/json:

schema:

$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Creates a new workflow event.

tags:

- Workflow Events
/workflow/api/v8/events/list:
get:
  operationId: getWorkflowEventsList
responses:
  "200":
    content:
      application/json:
        example:
        - id: 01HTUTXM9WJYO68qlCTXsVTsMvzwBOU3NTm
          name: Event One
          title: Event One
          type: kafka.event
          properties:
            target_id: 01HTUSVW1CT4X66ht5sueGVrOattrKeh8wkK
            title: Event One
            topic_name: TEST_TOPIC
            owner: aoadmin
            base_type: event
            schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
            created_on: 2020-08-07T13:56:55Z
            created_by: aoadmin
            updated_on: 2020-08-07T13:56:55Z
            updated_by: aoadmin
            unique_name: event_01HTUTXMUZK5K4e9DkbweSjca3gD5vpiKVq
        - id: 01HTV20GBCN0U42AUaJriRfalzhqatVmAsO
          name: Event Two
          title: Event Two
          type: kafka.event
          properties:
            target_id: 01HTV201F5UPB7Zvq80qNEcvlj1x0jYjRI1
            title: Event Two
            topic_name: TEST_TOPIC
            owner: aoadmin
            base_type: event
            schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
            created_on: 2020-08-07T14:07:28Z
            created_by: aoadmin
            updated_on: 2020-08-07T14:07:28Z
            updated_by: aoadmin
            unique_name: event_01HTV20GBCN0U42AUaJriRfalzhqatVmAsO
        - id: 01HTV20MCM3BS6ZkhyC6bdLEc5B8HHWe1whS
          name: Event Three
          title: Event Three
          type: kafka.event
          properties:
            target_id: 01HTV201F5UPB7Zvq80qNEcvlj1x0jYjRI1
            title: Event Three
            topic_name: TEST_TOPIC
owner: aoadmin
base_type: event
schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
created_on: 2020-08-07T14:07:28Z
created_by: aoadmin
updated_on: 2020-08-07T14:07:28Z
updated_by: aoadmin
unique_name: event_01HTV20MVVVRU29seKlnaJlQovPpaKFJLVm
schema:
  items:
    $ref: '#/components/schemas/WorkflowEvent'
type: array
description: OK
"400":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
  application/json:
schema:
    $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow events.
tags:
- Workflow Events
/workflow/api/v8/events/{id}:
delete:
opeationId: deleteWorkflowEvent
parameters:
- explode: false
  in: path
  name: id
  required: true

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schema:
  type: string
  style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Internal Server Error
summary: Deletes a workflow event.
tags:
- Workflow Events
get:
  operationId: getWorkflowEvent
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
style: simple
responses:
"200":
  content:
    application/json:
      example:
        id: 01HTV4I8YRWDG35I3IL4q3ek3kGOLiVSHLL
        name: Event One
        title: Event One
        type: kafka.event
        properties:
          target_id: 01HTV4HQDNXX37YDZ6gp7n1T1aVHd3WgI5
          title: Event One
          topic_name: TEST_TOPIC
          owner: aoadmin
          base_type: event
          schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
          created_on: 2020-08-07T14:10:43Z
          created_by: aoadmin
          updated_on: 2020-08-07T14:10:43Z
          updated_by: aoadmin
          unique_name: event_01HTV4I9L6CBI5ujNxAybYv2G2nz8W1Au7c
          schema:
            $ref: '#/components/schemas/WorkflowEvent'
        description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow event.
tags:
- Workflow Events
put:
opera(edges: updateWorkflowEvent
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
requestBody:
content:
application/json:
  example:
    title: New Title
description: All singing, all dancing event description.
target_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO
schema_id: 01HQR51UJFSML2CKLOFmnYq7YgGQlgzmvHx
properties:
  title: New Title
target_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO
topic_name: TEST_TOPIC
schema:
  $ref: '#/components/schemas/WorkflowEventUpdate'
required: true
responses:
"200":
content:
application/json:
  example:
id: 01HTV56VQQZUC4mWipHYh796PL3wOrxtRaD
name: New Title
title: New Title
type: kafka.event
properties:
target_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO
name: New Title
title: New Title
type: kafka.event
properties:
target_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO
topic_name: TEST_TOPIC
owner: aoadmin
base_type: event
schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
created_on: 2020-08-07T14:11:37Z
created_by: aoadmin
updated_on: 2020-08-07T14:11:38Z
updated_by: aoadmin
unique_name: event_01HTV56WB51FN58TvJUqNktaErVKaADwtN7

schema:
  $ref: '#/components/schemas/WorkflowEvent'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Updates a workflow event.
tags:
  - Workflow Events
/workflow/api/v8/workflows/{id}/instances/list:
get:
  operationId: getWorkflowInstancesList
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
- explode: true
  in: query
  name: dateFrom
  required: false
  schema:
    format: date
    type: string
    style: form
- explode: true
  in: query
  name: dateTo
  required: false
  schema:
    format: date
    type: string
    style: form
- explode: true
  in: query
  name: page
  required: true
  schema:
    example: 0
    format: int32
    minimum: 0
    type: integer
    style: form
- explode: true
  in: query
  name: pageSize
  required: true
  schema:
    example: 10
    format: int32
    maximum: 100
    minimum: 1
    type: integer
    style: form
responses:
  "200":
    content:
      application/json:
example:
- id: 01HTVA5WUVLV30XX6289x6F5Uw6i6fHxQ9f
  name: Health Check Atomic
  version: 1.0.0
  type: generic.workflow
  properties:
    atomic:
      is_atomic: false
      delete_workflow_instance: false
    display_name: Health Check Atomic
    favorite: false
  target:
    execute_on_workflow_target: true
    target_id: 01HTVA4PZGZ9P4Bt32dTETiQ7S2qJ0LdYZ
    target_type: 01HQR507N9OPR0y96Flu2f6rdLwOPvMc7Ub
  status:
    state: failed
  owner: aoadmin
  definition_id: 01HTVA4EWNF712PFaDpfGaIWmjavC014C3b5
  schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hiil559TOg
  base_type: workflow
  started_on: 2020-08-07T14:18:07Z
  ended_on: 2020-08-07T14:18:07Z
  created_on: 2020-08-07T14:18:06Z
  created_by: aoadmin
  updated_on: 2020-08-07T14:18:07Z
  updated_by: aoadmin
  schema:
    items:
      $ref: '#/components/schemas/WorkflowInstance'
  type: array
  description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow instances.
tags:
- Workflow Instances
/workflow/api/v8/workflows/instances/{id}:
delete:
  operationId: deleteWorkflowInstance
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          example: {} 
          schema:
            $ref: '#/components/schemas/WorkflowInstanceDeleteResponse'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Deletes a workflow instance.
tags:
- Workflow Instances
get:
  operationId: getWorkflowInstance
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
"200":
  content:
    application/json:
      example:
        id: 01HTVFR054LQ51nAr7jwPe8AiM7atRITAkS
        name: Health Check Atomic
        version: 1.0.0
        type: generic.workflow
        properties:
          atomic:
            is_atomic: false
            delete_workflow_instance: false
          display_name: Health Check Atomic
          favorite: false
          target:
            execute_on_workflow_target: true
target_id: 01HTVFPQO55C44B5cEs1Pn6RPSlw0rfKqQow

target_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub

actions:
- id: 01HTVFR07JOP33cYLy4zqZB8TiAioOebkBy
  name: HTTP Request
  title: HTTP Request
  type: web-service.http_request

status:
  state: failed

workflow_id: 01HTVFR054LQ51nAr7jwPe8AiM7atRITAkS

definition_id: 01HTVFQ8HCPZD7mxQWMo9aRK4SN8F2zaZ3j

variables:
- id: 01HTVFPGTKONV65tDGJ7ZFhVlpPmbfD1b
  properties:
    value: ""
    scope: input
    name: service_name
    type: datatype.string
    is_required: false

unique_name: variable_workflow_1fm5F8Z51f98LEsIfVpRNN0BceN

created_by: aoadmin

created_on: 2020-08-07T14:25:21Z

updated_by: aoadmin

updated_on: 2020-08-07T14:25:22Z

schema_id: 01HQR507ZJK3M3d09kDOqLNYSwRwovUhAW

object_type: ""

status:
  state: failed

owner: aoadmin

definition_id: 01HTVFPFGZ5Y5N7GeJgQDDnmN1el4l2v5uk8

schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4Hiil559TOg

base_type: workflow

started_on: 2020-08-07T14:25:24Z

ended_on: 2020-08-07T14:25:25Z

created_by: aoadmin

updated_on: 2020-08-07T14:25:25Z

updated_by: aoadmin

schema:
  $ref: '#/components/schemas/WorkflowInstance'

description: OK

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'

description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow instance.
tags:
- Workflow Instances
/workflow/api/v8/workflows/instances/{id}/cancel:
post:
operationId: cancelWorkflowInstance
parameters:
- explode: false
in: path
name: id
required: true
schema:
type: string
style: simple
responses:
"200":
content:
application/json:
schema:
$ref: '#/components/schemas/WorkflowInstance'
description: OK
"400":
content:
application/json:

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schema:
  $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error

summary: Cancels a workflow instance.
tags:
- Workflow Instances
/workflow/api/v8/workflows/instances/{id}/actions/{actionId}:
get:
  operationId: getWorkflowInstanceAction
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
- explode: false
  in: path
  name: actionId
  required: true
  schema:
    type: string
    style: simple
responses:
"200":

content:
application/json:
example:
  id: 01HTVKBEMJ03T6AXY12enM1fHqaebc5CTXC
  name: HTTP Request
  title: HTTP Request
  type: web-service.http_request
  properties:
    accept: application/json
    action_timeout: 180
    allow_auto_redirect: true
    content_type: application/json
    continue_on_error_status_code: false
    continue_on_failure: false
    custom_headers:
    - name: Content-type
      value: application/vnd.spring-boot.actuator.v1+json
    disable_certificate_validation: true
    display_name: HTTP Request
    host: dev-plt-aio1.lab.ciscomsx.com
    method: GET
    no_runtime_user: true
    port: -1
    protocol: https
    relative_url: //admin/health
    runtime_user:
      override_target_runtime_user: false
      target_default: true
    skip_execution: false
    target:
      override_workflow_target: false
      use_workflow_target: true
  status:
    state: failed
  output:
  error:
    code: "404"
    message: "action execution errored for type web-service.http_request\n\n\n<html><head><title>404 Not Found</title></head><\\n\n<body><\n\n<center><h1>404 Not Found</h1></center><\n\n<hr><center>nginx</center><\n\n</body><\n\n</html>"
  response:
  elapsed_time: 0.235917361
  end_time: 2020-08-07T14:31:22.97397746Z
  start_time: 2020-08-07T14:31:22.738060099Z
  succeeded: false
Workflow ID: 01HTVKEKMIJF3YhZeIIIt6O4GkrP9Fyo7gd
Definition ID: 01HTVKA0L9R23bhwYdXqHUb4KAFAP4lKP
Schema ID: 01HQR5TKR3L0262ioIhatOKRw8sjtMfaTpY
Adapter ID: 01HQR4XDDJP8e15L5bYoKqfH9LDFR1V7ndt
Base Type: activity
Started By: aoadmin
Started On: 2020-08-07T14:31:22Z
Ended On: 2020-08-07T14:31:22Z
Schema:
   $ref: '#/components/schemas/WorkflowAction'
Description: OK
"400":
   Content:
      application/json:
         Schema:
            $ref: '#/components/schemas/Error'
Description: Bad Request
"401":
   Content:
      application/json:
         Schema:
            $ref: '#/components/schemas/Error'
Description: Unauthenticated
"403":
   Content:
      application/json:
         Schema:
            $ref: '#/components/schemas/Error'
Description: Unauthorized
"404":
   Content:
      application/json:
         Schema:
            $ref: '#/components/schemas/Error'
Description: Not Found
"500":
   Content:
      application/json:
         Schema:
            $ref: '#/components/schemas/Error'
Description: Internal Server Error
Summary: Returns a workflow instance action.
Tags:
- Workflow Instances
/workflow/api/v8/schemas/list:
Get:
   OperationId: getWorkflowSchemasList
Parameters:
- explode: true
  in: query
  name: baseType
  required: true
  schema:
    default: category
    type: string
    style: form
- explode: true
  in: query
  name: schemaType
  required: false
  schema:
    default: view
    type: string
    style: form
- explode: true
  in: query
  name: variableType
  required: false
  schema:
    default: false
    type: boolean
    style: form

responses:
"200":
  content:
    application/json:
      example:
        - id: 01HQR51GF9PYP4qe0yoinLF7qPWG5RRw5y4
          name: AMQP Event
          title: AMQP Event
          description: AMQP Event
          type: amqp.event
          version: 1.0.0
          invisible: false
          owner: system
          inherits: generic.server_event
          base_type: event
          created_on: 2020-08-03T22:25:21Z
          created_by: system
          updated_on: 2020-08-03T22:25:21Z
          updated_by: system
          access_meta:
            adapter:
              id: 01HQR4W5OQF586jo6uMoPzD7jmoKZASTDHc
              type: adapter.amqp
              version: 1.0.0
targets:
- id: 01HQR4XL0F2XR2a2gY4xVFgwzyoVaX39eHm
type: amqp.endpoint
version: 1.0.0
- id: 01HQR51LCBPSZ2s8uQvreTFwX9giX7kNPET
  name: Approval Task Event
title: Approval Task Event
description: Approval Task Event
type: approval_task.event
version: 1.0.0
invisible: false
owner: system
inherits: generic.event
base_type: event
created_on: 2020-08-03T22:25:21Z
created_by: system
updated_on: 2020-08-03T22:25:21Z
updated_by: system
- id: 01HQR51OODY3N2NzytzL14JaOx2DTZwaDAcU
  name: Email Event
title: Email Event
description: Email Event
type: email.event
version: 1.0.0
invisible: false
owner: system
inherits: generic.server_event
base_type: event
created_on: 2020-08-03T22:25:21Z
created_by: system
updated_on: 2020-08-03T22:25:21Z
updated_by: system
access_meta:
  adapter:
    id: 01HQR4WI5PA612XK9BYQrKjG0iYP8M7IOyT
    type: adapter.email
    version: 1.0.0
targets:
- id: 01HQR4Z9J2PJH53O1TRG6YialYEOwS3yuVgN
  type: email.pop3_endpoint
  version: 1.0.0
- id: 01HQR4YMF9VX0FTcEvMQtvnF4UMWtAGC
  type: email.imap_endpoint
  version: 1.0.0
- id: 01HQR51UJSML2CKLOFnnYq7YgGQIgzmHx
  name: Kafka Event
title: Kafka Event
description: Kafka Event

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type: kafka.event
version: 1.0.0
invisible: false
owner: system
inherits: generic.server_event
base_type: event
created_on: 2020-08-03T22:25:22Z
created_by: system
updated_on: 2020-08-03T22:25:22Z
updated_by: system
access_meta:
  adapter:
    id: 01HQR4WU9U9AY1ZDytSm3OHx6vaXyFalWr2
    type: adapter.kafka
    version: 1.0.0
  targets:
    - id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbmx43
      type: kafka.endpoint
      version: 1.0.0
    - id: 01HQR520APZM96G6JkrnZctwy3tMtVfojPy
      name: Webhook Event
title: Webhook Event
description: Webhook Event
type: webhook.event
version: 1.0.0
invisible: false
owner: system
inherits: generic.event
base_type: event
created_on: 2020-08-03T22:25:22Z
created_by: system
updated_on: 2020-08-03T22:25:22Z
updated_by: system
access_meta: {}
schema:
  items:
    $ref: '#/components/schemas/WorkflowSchema'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow schemas.
tags:
  - Workflow Schemas
/workflow/api/v8/schemas/{id}:
  get:
    operationId: getWorkflowSchema
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          type: string
          style: simple
      - explode: true
        in: query
        name: schemaType
        required: false
        schema:
          default: view
          type: string
          style: form
    responses:
      "200":
        content:
          application/json:
            example:
              view_schema:
                name: Generic Category
                title: Generic Category
                description: Generic Category
                type: basic.category
                version: 1.0.0
invisible: false
owner: system
schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
base_type: category
created_on: 2020-08-03T22:25:02Z
created_by: system
updated_on: 2020-08-03T22:25:02Z
updated_by: system
property_schema:
  properties:
  description:
    component: textarea
    maxLength: 1024
    minLength: 0
    position: 2
    section: General
    title: Description
    type: string
  name:
    lhv_invisible: formOnly
    maxLength: 64
    minLength: 0
    section: General
    title: Name
    type: string
  title:
    maxLength: 64
    minLength: 1
    position: 1
    section: General
    title: Display Name
    type: string
  required:
  - title
  view_config:
    section_order:
      - General
  schema:
    $ref: '#/components/schemas/WorkflowSchemaByTypeResponse'
description: OK
"400":
content:
application/json:
  schema:
    $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthenticated "403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized "404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found "500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow schema.
tags:
- Workflow Schemas
/workflow/api/v8/targets:
post:
operationId: createWorkflowTarget
requestBody:
content:
application/json:
example:
  name: MSX Kafka
description: A most excellent description.
title: Target One
type: kafka.endpoint
properties:
  disable_certificate_validation: false
display_name: MSX Kafka
host: kafka.vms.svc.cluster.local
no_runtime_user: true
port: 9092
ssl_enable: false
schema:
  $ref: '#/components/schemas/WorkflowTargetCreate'
required: true
responses:
  "201":

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application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a new workflow target.
tags:
  - Workflow Targets
/workflow/api/v8/targets/list:
get:
  operationId: getWorkflowTargetsList
parameters:
  - explode: true
    in: query
    name: internal
    required: false
    schema:
      type: boolean
      style: form
  - explode: true
    in: query
    name: type
    required: false
    schema:
      type: string
      style: form
responses:
  "200":
    content:
      application/json:
        example:
          - id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
            name: MSX Kafka
            type: kafka.endpoint
            properties:
              disable_certificate_validation: false
              display_name: MSX Kafka
              host: kafka.vms.svc.cluster.local
              no_runtime_user: true
              port: 9092
              ssl_enable: false
            owner: aoadmin
            valid: true
            schema_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbmx43
            adapter_id: 01HQR4WT4TZ0X3NzZLJ7wGkfR7wKsAzPbLq
            base_type: target
            created_on: 2020-08-03T22:29:57Z
            created_by: aoadmin
            updated_on: 2020-08-03T22:29:57Z
updated_by: aoadmin
def_access_meta:
  is_internal: false
  unique_name: definition_target_01AN9H4AFTF5C2I6FseuNnivO21Ol6gZXbN
schema:
  items:
    $ref: '#/components/schemas/WorkflowTarget'
type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of workflow targets.
tags:
- Workflow Targets
/workflow/api/v8/targets/{id}:
delete:
operationId: deleteWorkflowTarget
parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
responses:
"204":
description: No Content
"400":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
$ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a workflow target.
tags:
- Workflow Targets
get:
operationId: getWorkflowTarget
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
responses:
"200":
content:
application/json:
example:
  id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
  name: MSX Kafka
  type: kafka.endpoint
  properties:
    disable_certificate_validation: false
    display_name: MSX Kafka
    host: kafka.vms.svc.cluster.local
    no_runtime_user: true
    port: 9092
    ssl_enable: false
  owner: aoadmin
  valid: true
  schema_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbm43
  adapter_id: 01HQR4WT4TZ0X3NzZL7wGklR7wKSazPbLq
  base_type: target
  created_on: 2020-08-03T22:29:57Z
  created_by: aoadmin
  updated_on: 2020-08-03T22:29:57Z
  updated_by: aoadmin
  def_access_meta:
    is_internal: false
    unique_name: definition_target_01AN9H4AFTF5C2f6FseuNnivO2IIO8gZXbN
  schema:
    $ref: '#/components/schemas/WorkflowTarget'
  description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a workflow target.
tags:
- Workflow Targets
put:
  operationId: updateWorkflowTarget
parameters:
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
    style: simple
requestBody:
  content:
    application/json:
      example:
        name: MSX Kafka
description: A most excellent description.
type: kafka.endpoint
properties:
  disable_certificate_validation: false
display_name: MSX Kafka
host: kafka.vms.svc.cluster.local
no_runtime_user: true
port: 9092
ssl_enable: false
schema:
  $ref: '#/components/schemas/WorkflowTargetUpdate'
required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT
          name: MSX Kafka
type: kafka.endpoint
properties:
disable_certificate_validation: false
display_name: MSX Kafka
host: kafka.vms.svc.cluster.local
no_runtime_user: true
port: 9092
ssl_enable: false
owner: aoadmin
valid: true
schema_id: 01HQR4YUOF8XZLF4QKY5qM470yHLoepbmx43
adapter_id: 01HQR4WT4TZ0X3NZL7wGk7wKsAzPbLq
base_type: target
created_on: 2020-08-03T22:29:57Z
created_by: aoadmin
updated_on: 2020-08-03T22:29:57Z
updated_by: aoadmin
def_access_meta:
  is_internal: false
unique_name: definition_target_01AN9H4AFTF5C2l6FseuNnivO2II08gZXhN
schema:
  $ref: '#/components/schemas/WorkflowTarget'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Updates a workflow target.
tags:
  - Workflow Targets
/manageddevice/api/v1/templates:
get:
operaionId: getManagedDeviceTemplatesList
responses:
  "200":
    content:
      application/json:
        schema:
          items:
            $ref: '#/components/schemas/ManagedDeviceTemplateDTO'
type: array
description: OK
"400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
"401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of managed device templates.
tags:
  - Managed Device Templates
post:
operaionId: createManagedDeviceTemplate
requestBody:
content:
  application/json:
    schema:
      $ref: '#/components/schemas/ManagedDeviceTemplateDTO'
required: true
responses:
  "201":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/ManagedDeviceTemplateDTO'
description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a managed device template.
tags:
- Managed Device Templates
/manageddevice/api/v3/sites:
  get:
    operationId: getManagedDeviceSites
    parameters:
    - explode: true
      in: query
      name: filters
      required: false
      schema:
items:
  type: string
  type: array
  style: form
responses:
  "200":
    content:
      application/json:
        schema:
          items:
            $ref: '#/components/schemas/ManagedDeviceSiteDTO'
          type: array
        description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Returns a list of managed device sites.
tags:
  - Managed Devices Sites
components:
parameters:
  workflowPage:
    explode: true
    in: query
    name: page
    required: true
    schema:
schema:
  $ref: '#/components/schemas/Error'
description: Precondition Failed
"422":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unprocessable Entity
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
schemas:
Product:
  allOf:
  - $ref: '#/components/schemas/Product_allOf'
  - $ref: '#/components/schemas/ProductCreate'
ProductCreate:
  allOf:
  - $ref: '#/components/schemas/ProductUpdate'
ProductUpdate:
  example:
    image: image
    multipleInstanceAllowed: true
    configuration:
      key: configuration
    hasChildren: true
    serviceExtensions:
      - serviceType: serviceType
        serviceInstanceXPath: serviceInstanceXPath
        possibleXPathLocations:
        - possibleXPathLocations
        - possibleXPathLocations
        - serviceType: serviceType
        serviceInstanceXPath: serviceInstanceXPath
        possibleXPathLocations:
        - possibleXPathLocations
        - possibleXPathLocations
        displayOrder: 6
    orderLimit: 1
    description: description
    active: true
    uiConfig:
      bannerImage: bannerImage
    links:
- address: address
  label: label
  type: type
  target: target
- address: address
  label: label
  type: type
  target: target
label: label
version: 0
parentId: parentId
price: price
serviceConfigQueryRootXPaths:
  - serviceConfigQueryRootXPaths
  - serviceConfigQueryRootXPaths
name: name
options:
  - hidden: true
dynamicData: true
childElements:
  - null
  - null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '{}'
  - key: '{}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
- '{}'
- '{}'
name: name
header: header
allowedOptionValues:
- allowedOptionValues
- allowedOptionValues
supported: true
- hidden: true
dynamicData: true
childElements:
- null
- null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '{}'
  - key: '{}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
- '{}'
- '{}'
name: name
supported: true
- hidden: true
dynamicData: true
childElements:
  - null
- null
stepSize: 2
description: description
pricingAttributes:
  - additionalPeriodicPrice
  periodicPrice
  includedQuantity: 7
  oneTimePrice
  unitOfMeasure
  timePeriod
  additionalQuantity: 9
  additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
  - key: '{ }'
  - key: '{ }'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
  - '{ }'
  - '{ }'
name: name
header: header
allowedOptionValues:
  - allowedOptionValues
  - allowedOptionValues
supported: true
properties:
  name:
    maxLength: 128
  minLength: 1
type: string
label:
  maxLength: 128
  minLength: 1
  type: string
version:
  type: integer
description:
  maxLength: 512
  minLength: 1
  type: string
image:
  type: string
multipleInstanceAllowed:
  type: boolean
price:
  type: string
displayOrder:
  type: integer
active:
  type: boolean
orderLimit:
  type: integer
options:
  items:
    $ref: '#/components/schemas/ServiceElement'
  type: array
properties:
  items:
    $ref: '#/components/schemas/ServiceElement'
  type: array
configuration:
  additionalProperties:
    type: string
type: object
isResource:
  type: boolean
hasChildren:
  type: boolean
parentId:
  format: UUID
  type: string
serviceExtensions:
  items:
    $ref: '#/components/schemas/NSOConfigDataXPath'
  type: array
serviceConfigQueryRootXPaths:
  items:
    type: string
uiConfig:
  $ref: '#/components/schemas/ServiceUIConfig'
required:
- configuration
- description
- hasChildren
- image
- isResource
- label
- name
- options
- price
- properties
- serviceId
- version
type: object

ServiceElement:
example:
  hidden: true
dynamicData: true
childElements:
- null
- null
stepSize: 2
description: description
pricingAttributes:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
  timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
section: section
type: type
mandatory: true
minValue: 5
inputType: inputType
value: value
allowedValues:
- key: '{}' 
  - key: '{}'
maxValue: 5
minLimit: minLimit
label: label
billable: true
component: component
parentName: parentName
maxLimit: maxLimit
hint: hint
valueList:
  - '{ }
  - '{ }
name: name
header: header
allowedOptionValues:
  - allowedOptionValues
  - allowedOptionValues
supported: true
properties:
  name:
    type: string
  label:
    type: string
  header:
    type: string
  description:
    type: string
  hint:
    type: string
  inputType:
    type: string
type:
  component:
    type: string
  maxLimit:
    type: string
  minLimit:
    type: string
  value:
    type: string
valueList:
  items:
    type: object
type: array
allowedOptionValues:
  items:
    type: string
type: array
allowedValues:
  items:
    additionalProperties:
      type: object
type: object
  type: array
mandatory:
  type: boolean
section:
  type: string
billable:
  type: boolean
hidden:
  type: boolean
parentName:
  type: string
supported:
  type: boolean
dynamicData:
  type: boolean
minValue:
  type: integer
maxValue:
  type: integer
stepSize:
  type: integer
pricingAttributes:
  $ref: '#/components/schemas/ServiceElementPrice'
childElements:
  items:
    $ref: '#/components/schemas/ServiceElement'
type: array
type: object
ServiceElementPrice:
example:
  additionalPeriodicPrice: additionalPeriodicPrice
  periodicPrice: periodicPrice
  includedQuantity: 7
  oneTimePrice: oneTimePrice
  unitOfMeasure: unitOfMeasure
  timePeriod: timePeriod
  additionalQuantity: 9
  additionalOneTimePrice: additionalOneTimePrice
properties:
  oneTimePrice:
    type: string
  periodicPrice:
    type: string
  timePeriod:
    type: string
  unitOfMeasure:
    type: string
includedQuantity:
  type: integer
additionalOneTimePrice:
  type: string
additionalPeriodicPrice:
  type: string
additionalQuantity:
  type: integer
type: object
NSOConfigDataXPath:
example:
  serviceType: serviceType
  serviceInstanceXPath: serviceInstanceXPath
  possibleXPathLocations:
  - possibleXPathLocations
  - possibleXPathLocations
  properties:
    serviceInstanceXPath:
      minLength: 1
      type: string
    serviceType:
      type: string
    possibleXPathLocations:
      items:
        type: string
        type: array
      required:
        - serviceInstanceXPath
    type: object
ServiceUIConfig:
example:
  bannerImage: bannerImage
  links:
  - address: address
    label: label
    type: type
    target: target
  - address: address
    label: label
    type: type
    target: target
properties:
  bannerImage:
    type: string
  links:
    items:
      $ref: '#/components/schemas/ServiceUILink'
    type: array
label: label
type: type
version: 0
properties:
name:
  maxLength: 128
  minLength: 1
  type: string
label:
  maxLength: 128
  minLength: 1
  type: string
description:
  maxLength: 512
  minLength: 1
  type: string
productId:
  format: uuid
  type: string
version:
  type: integer
displayOrder:
  type: integer
image:
  type: string
price:
  type: string
type:
  type: string
supportedProperties:
  items:
    type: string
type: array
supportedOptions:
  items:
    $ref: '#/components/schemas/NameValue'
type: array
approvals:
  additionalProperties:
    items:
      type: string
type: array
type: object
required:
- description
- displayOrder
- image
- label
- name
- productId
- supportedOptions
- supportedProperties
- version
  type: object

OffersPage:
  allOf:
  - $ref: '#/components/schemas/PageHeader'
  - $ref: '#/components/schemas/OffersPage_allOf'

Device:
  allOf:
  - $ref: '#/components/schemas/Device_allOf'
  - $ref: '#/components/schemas/DeviceCreate'

DeviceCreate:
  allOf:
  - $ref: '#/components/schemas/DeviceCreate_allOf'
  - $ref: '#/components/schemas/DeviceUpdate'

DeviceUpdate:
  properties:
    name:
      maxLength: 128
      minLength: 1
      type: string
    model:
      maxLength: 128
      minLength: 1
      type: string
    type:
      maxLength: 128
      minLength: 1
      type: string
    subType:
      maxLength: 128
      type: string
    serviceType:
      maxLength: 128
      type: string
    tags:
      additionalProperties:
        type: string
      type: object
    serialKey:
      maxLength: 128
      minLength: 11
      type: string
    version:
      maxLength: 128
minLength: 1
type: string
managed:
default: false
type: boolean
onboardType:
  maxLength: 128
type: string
onboardInformation:
  additionalProperties:
    type: string
type: object
attributes:
  additionalProperties:
    type: string
type: object
billing:
  $ref: '#/components/schemas/DeviceBilling'
required:
- managed
- model
- name
- serialKey
- type
- version
type: object
DeviceBilling:
  properties:
    deviceSpeedGrade:
      minLength: 1
type: string
deviceVnfSource:
  minLength: 1
type: string
vnfFlavor:
  minLength: 1
type: string
vnfImage:
  minLength: 1
type: string
vnfName:
  minLength: 1
type: string
vnfValue:
  minLength: 1
type: string
required:
- deviceSpeedGrade
- deviceVnfSource
- vnfFlavor
- vnfImage
- vnfName
- vnfValue
type: object

DevicesPage:
allOf:
- $ref: '#/components/schemas/PageHeader'
- $ref: '#/components/schemas/DevicesPage_allOf'

DeviceTemplateHistory:
example:
  modifiedOn: 2000-01-23T04:56:07.000+00:00
  statusError: statusError
  templateParams:
    - name: name
      value: value
    - name: name
      value: value
  id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  deviceId: deviceId
  userId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  status: Applied

properties:
id:
  format: uuid
type: string
deviceId:
  type: string
templateId:
  format: uuid
type: string
userId:
  format: uuid
type: string
status:
  enum:
    - Applied
    - Applying
    - Apply Failed
    - Detached
    - Detaching
    - Detach Failed
type: string
statusError:
  type: string
templateParams:
items:
  $ref: '#/components/schemas/NameValue'
type: array
modifiedOn:
  format: date-time
type: string
type: object
DeviceTemplateAttachRequest:
example:
  templateDetails:
    - templateParams:
      - name: name
        value: value
      - name: name
        value: value
    templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  templateDetails:
    - templateParams:
      - name: name
        value: value
      - name: name
        value: value
    templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  templateDetails:
    items:
      $ref: '#/components/schemas/DeviceTemplateDetails'
type: array
type: object
DeviceTemplateDetails:
example:
  templateParams:
    - name: name
      value: value
    - name: name
      value: value
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  templateId:
    format: uuid
type: string
templateParams:
  items:
    $ref: '#/components/schemas/NameValue'
type: array
type: object
DeviceTemplateUpdateDetails:
example:
  templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
templateParams:
- name: name
  value: value
- name: name
  value: value

properties:
  templateHistoryId:
    format: uuid
    type: string
  templateParams:
  items:
    $ref: '#/components/schemas/NameValue'
    type: array
  type: object

DeviceTemplateUpdateRequest:
example:
  templateDetails:
    - templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
      templateParams:
        - name: name
          value: value
        - name: name
          value: value
        - templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
          templateParams:
            - name: name
              value: value
            - name: name
              value: value
            - templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
              templateParams:
                - name: name
                  value: value
                - name: name
                  value: value
                - name: name
                  value: value
  properties:
    templateDetails:
    items:
      $ref: '#/components/schemas/DeviceTemplateUpdateDetails'
      type: array
  type: object

DeviceTemplate:
allOf:
- $ref: '#/components/schemas/DeviceTemplateCreate'
- $ref: '#/components/schemas/DeviceTemplate_allOf'

DeviceTemplateCreate:
example:
  serviceType: serviceType
  configContent: configContent
deviceModels:
  - deviceModels
  - deviceModels
templateStandard: templateStandard
  name: name
tenantAccess:
  global: true
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
tenantIds:
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
resourceProvider: resourceProvider
version: version
properties:
  name:
    type: string
  version:
    type: string
  serviceType:
    type: string
  deviceModels:
    items:
      type: string
      type: array
  configContent:
    minLength: 1
    type: string
  resourceProvider:
    type: string
  templateStandard:
    type: string
  tenantAccess:
    $ref: '#/components/schemas/DeviceTemplateAccess'
required:
  - configContent
type: object
DeviceTemplateAccess:
example:
  global: true
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  tenantIds:
    - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  templateId:
    format: uuid
    type: string
  tenantIds:
    description: List of tenants to grant access. Mutually exclusive from global flag field.
    items:
      format: uuid
      type: string
DeviceTemplateAccessResponse:

example:

successListOfTenants:
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91
global: true

failureListOfTenants:
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91

properties:

failureListOfTenants:

items:

  format: uuid
  type: string
  type: array

global:

successListOfTenants:

items:

  format: uuid
  type: string
  type: array

type: object

Service:

example:

modifiedOn: 2000-01-23T04:56:07.000+00:00
provisionedOn: 2000-01-23T04:56:07.000+00:00

attributes:

key: '{ }'

attributes:

key: '{ }'
id: id

subscriptionId: subscriptionId

userId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

createdOn: 2000-01-23T04:56:07.000+00:00

status:

key: status

properties:

id:
readOnly: true

providerId:
  format: uuid
  type: string

tenantId:
  format: uuid
  type: string

userId:
  format: uuid
  type: string

subscriptionId:
  type: string

tenantName:
  type: string

dependency:
  resource: #/components/schemas/RESTfulService

createdOn:
  format: date-time
  readOnly: true
  type: string

modifiedOn:
  format: date-time
  readOnly: true
  type: string

provisionedOn:
  format: date-time
  readOnly: true
  type: string

status:
  additionalProperties:
    type: string
    type: object

definitionAttributes:
  additionalProperties:
    type: object
    type: object

attributes:
  additionalProperties:
    type: object
    type: object

type: object

ServicesPage:
  allOf:
    - $ref: '#/components/schemas/PageHeader'
    - $ref: '#/components/schemas/ServicesPage_allOf'

LegacyServiceOrder:
  example:
    serviceType: serviceType
    schedule:
method: method
absolute:
  dateTime: 2017-08-01 13:56:44 -0700
relative:
  scheduleIn: 2h 10m 30s
transactionUUID: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
payload:
  offer:
    key: offer
  cost:
    key: cost
  serviceDowngrade:
    key: '[]'
  provider:
    key: provider
  service:
    key: service
  subscriptionName: subscriptionName
  subscriptionId: subscriptionId
  user:
    key: user
  subscriptionDetail:
    offerSelection:
      key: '[]'
    siteCount: '[]'
    dealerCode: dealerCode
  configuration:
    key: configuration
  priceDetail:
    key: '[]'
  termsAndConditionId: termsAndConditionId
  sites:
    - operationalStatus: operationalStatus
      address:
        country: country
        address2: address2
        city: city
        address1: address1
        name: name
        company: company
        postCode: postCode
        state: state
        display_name: display_name
      devices:
        - deviceOnboarding:
          deviceInstanceId: deviceInstanceId
deviseOnboardInformation:
            key: '[]'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
  managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
- operationalStatus: operationalStatus
  address:
    country: country
    address2: address2
city: city
  address1: address1
  name: name
  company: company
  postCode: postCode
  state: state
display_name: display_name
devices:
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
properties:
  messageId:
    type: string
  type:
    type: string
  serviceType:
    type: string
  action:
    type: string
  schedule:
    $ref: '#/components/schemas/LegacyScheduleConfig'
  payload:
    $ref: '#/components/schemas/LegacyServiceOrderDetail'
  transactionUUID:
    format: uuid
    type: string
    type: object

LegacyScheduleConfig:
example:
  method: method
  absolute:
    dateTime: 2017-08-01 13:56:44 -0700
  relative:
    scheduleIn: 2h 10m 30s
  properties:
    method:
      type: string
    relative:
      $ref: '#/components/schemas/LegacyRelativeConfig'
    absolute:
      $ref: '#/components/schemas/LegacyAbsoluteConfig'
  type: object

LegacyRelativeConfig:
example:
  scheduleIn: 2h 10m 30s
  properties:
    scheduleIn:
      example: 2h 10m 30s
    type: string
    type: object

LegacyAbsoluteConfig:
example:
  dateTime: 2017-08-01 13:56:44 -0700
  properties:
    dateTime:
      example: 2017-08-01 13:56:44 -0700
      type: string
      type: object
LegacyServiceOrderDetail:
example:
  offer:
    key: offer
  cost:
    key: cost
  serviceDowngrade:
    key: '{}'
  provider:
    key: provider
  service:
    key: service
  subscriptionName: subscriptionName
  subscriptionId: subscriptionId
  user:
    key: user
  subscriptionDetail:
    offerSelection:
      key: '{}'
      siteCount: '{}'
      dealerCode: dealerCode
    configuration:
      key: configuration
    priceDetail:
      key: '{}'
    termsAndConditionId: termsAndConditionId
  sites:
    - operationalStatus: operationalStatus
      address:
        country: country
        address2: address2
        city: city
        address1: address1
        name: name
        company: company
        postCode: postCode
        state: state
        display_name: display_name
  devices:
    - deviceOnboarding:
      deviceInstanceId: deviceInstanceId
      deviceOnboardInformation:
        key: '{}'
        managed: true
        tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
        deviceModel: deviceModel
        devicename: devicename
        deviceOnboardingType: deviceOnboardingType
name: name
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
- operationalStatus: operationalStatus
  address:
    country: country
    address2: address2
city: city
address1: address1
name: name
company: company
postCode: postCode
state: state
display_name: display_name
devices:
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
key: '{}'
deviceId: deviceId
delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}'
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
serviceInstanceDetail:
key: '{}'
pricePlanId: pricePlanId
tenant:
  key: tenant
nsoResponseTypes:
deleteOperation: deleteOperation
updateOperation: updateOperation
createOperation: createOperation
properties:
service:
  additionalProperties:
    type: string
    type: object
tenant:
  additionalProperties:
    type: string
type: object
user:
  additionalProperties:
    type: string
    type: object
provider:
  additionalProperties:
    type: string
    type: object
offer:
  additionalProperties:
    type: string
    type: object
cost:
  additionalProperties:
    type: string
    type: object
subscriptionId:
  type: string
subscriptionName:
  type: string
subscriptionDetail:
  $ref: '#/components/schemas/LegacySubscriptionDetail'
serviceDowngrade:
  additionalProperties:
    type: object
    type: object
nsosResponseTypes:
  $ref: '#/components/schemas/LegacyNsoResponseTypes'
type: object
LegacySubscriptionDetail:
example:
  offerSelection:
    key: '{}'
siteCount: '{}'
dealerCode: dealerCode
configuration:
  key: configuration
priceDetail:
  key: '{}'
termsAndConditionId: termsAndConditionId
sites:
  - operationalStatus: operationalStatus
    address:
      country: country
      address2: address2
city: city
    address1: address1
city: city
address1: address1
name: name
company: company
postCode: postCode
state: state
display_name: display_name
devices:
  - deviceOnboarding:
      deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
        key: '{}'
      managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
  - deviceOnboarding:
      deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
        key: '{}'
      managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
serviceInstanceDetail:
  key: '{}'

pricePlanId: pricePlanId
properties:
siteCount:
  type: object
sites:
  items:
    $ref: '#/components/schemas/LegacySite'
type: array
offerSelection:
  additionalProperties:
    type: object
type: object
serviceInstanceDetail:
  additionalProperties:
    type: object
type: object
priceDetail:
  additionalProperties:
    type: object
type: object
dealerCode:
  type: string
pricePlanId:
  type: string
termsAndConditionId:
  type: string
configuration:
  additionalProperties:
    type: string
type: object
type: object
LegacyNsoResponseTypes:
example:
  deleteOperation: deleteOperation
  updateOperation: updateOperation
  createOperation: createOperation
properties:
  createOperation:
    type: string
  updateOperation:
    type: string
deleteOperation:
    type: string
type: object
LegacySite:
example:
  operationalStatus: operationalStatus
  address:
country: country
address2: address2
city: city
address1: address1
name: name
company: company
postCode: postCode
state: state
display_name: display_name
devices:
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
      key: '{}'
    managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
      key: '{}'
    managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
displayName: displayName
siteAttributes:
  key: '{}'
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
siteName: siteName
delete: true
properties:
  siteId:
    format: uuid
    type: string
  siteName:
    type: string
  displayName:
    type: string
  address:
    $ref: '#/components/schemas/LegacyAddress'
  devices:
    items:
      $ref: '#/components/schemas/LegacySiteDevice'
    type: array
  siteAttributes:
    additionalProperties:
      type: object
    type: object
  delete:
    type: boolean
  operationalStatus:
    type: string
required:
- address
- siteId
- siteName

LegacyAddress:
  example:
    country: country
    address2: address2
    city: city
    address1: address1
    name: name
    company: company
    postCode: postCode
    state: state
    display_name: display_name
  properties:
    name:
      type: string
    display_name:
      type: string
    company:
      type: string
    address1:
      type: string
    address2:
```json

type: string
city:
type: string
state:
type: string
country:
type: string
postcode:
type: string
type: object
LegacySiteDevice:
example:
deviceOnboarding:
  deviceId: deviceId
  managed: true
  tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
  key: '{}'
deviceId: deviceId
delete: true
properties:
  deviceId:
    type: string
  name:
    type: string
  model:
    type: string
type:
    type: string
deviceAttributes:
  additionalProperties:
    type: object
type: object
deviceOnboarding:
  $ref: '#/components/schemas/LegacySiteDeviceOnboard'
delete:
  type: boolean
required:
- name
type: object
```
LegacySiteDeviceOnboard:
example:
  deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
  key: {}
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
properties:
  deviceInstanceId:
    type: string
tenantId:
    format: uuid
type: string
deviceName:
  minLength: 1
type: string
managed:
  default: true
type: boolean
deviceModel:
  type: string
deviceOnboardingType:
  type: string
deviceOnboardInformation:
  additionalProperties:
    type: object
type: object
type: object
LegacyServiceOrderResponse:
example:
  transactionUUID: transactionUUID
serviceInstanceIds:
- serviceInstanceIds
- serviceInstanceIds
devices:
- '{
- '{}'
sites:
- '{
- '{}'
message: message
subscriptionId: subscriptionId
url: url
status: status
properties:
message:
  type: string
transactionUUID:
  format: uuid
  type: string
subscriptionId:
  type: string
url:
  type: string
status:
  type: string
serviceInstanceIds:
  items:
    type: string
  type: array
sites:
  items:
    type: object
  type: array
devices:
  items:
    type: object
  type: array
Site:
  example:
    image: image
    address:
      country: country
      address2: address2
      city: city
      address1: address1
      name: name
      company: company
    postCode: postCode
    state: state
devices:
  - serviceType: serviceType
    serviceId: serviceId
    deviceId: deviceId
  - serviceType: serviceType
    serviceId: serviceId
    deviceId: deviceId
description: description
type: type
createdOn: 2000-01-23T04:56:07.000+00:00
parentId: 046b6c7f-0b8a-43b9-b35d-6489e6dae91
modifiedOn: 2000-01-23T04:56:07.000+00:00
lastUpdatedMessage: lastUpdatedMessage
value: unknown
properties:
type:
  default: unknown
maxLength: 128
minLength: 1
type: string
name:
  default: unknown
maxLength: 128
minLength: 1
type: string
value:
  default: unknown
maxLength: 128
minLength: 1
type: string
severity:
  maxLength: 128
minLength: 1
type: string
lastUpdated:
  format: date-time
type: string
lastUpdatedMessage:
  maxLength: 128
minLength: 1
type: string
required:
- lastUpdatedMessage
- name
- severity
- type
- value
type: object
SiteCreate:
allOf:
- $ref: '#/components/schemas/SiteCreate_allOf'
- $ref: '#/components/schemas/SiteUpdate'
SiteUpdate:
exmple:
  image: image
  address:
    country: country
    address2: address2
    city: city
    address1: address1
name: name
company: company
postCode: postCode
state: state
contact:
    phone: phone
    name: name
    email: email
    name: name
description: description
location:
    latitude: -75.5850925717018
    longitude: 36.988422590534526
attributes:
    key: attributes
type: type
parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

properties:
    parentId:
        format: uuid
type: string
name:
    maxLength: 128
    minLength: 1
type: string
description:
    maxLength: 256
type: string
type:
    maxLength: 128
    pattern: ^\-[a-zA-Z0-9]*$ 
    type: string
address:
    $ref: '#/components/schemas/SiteAddress'
contact:
    $ref: '#/components/schemas/SiteContact'
location:
    $ref: '#/components/schemas/SiteLocation'
image:
    maxLength: 40000
type: string
attributes:
    additionalProperties:
        type: string
type: object
required:
- name
type: object
SiteAddress:
  example:
    country: country
    address2: address2
    city: city
    address1: address1
    name: name
    company: company
    postCode: postCode
    state: state
properties:
  name:
    type: string
  company:
    type: string
  address1:
    minLength: 1
    type: string
  address2:
    type: string
  city:
    minLength: 1
    type: string
  state:
    minLength: 1
    type: string
  country:
    minLength: 1
    type: string
  postCode:
    minLength: 1
    type: string
required:
  - address1
  - city
  - country
  - postCode
  - state
  type: object
SiteContact:
  example:
    phone: phone
    name: name
    email: email
properties:
  name:
    type: string
  phone:
type: string
email:
  format: email
  type: string
required:
  - name
  - phone
type: object
SiteLocation:
  example:
    latitude: -75.5850925717018
    longitude: 36.988422590534526
  properties:
    latitude:
      format: double
      maximum: 90
      minimum: -90
      type: number
    longitude:
      format: double
      maximum: 180
      minimum: -180
      type: number
required:
  - latitude
  - longitude
type: object
SitesPage:
  allOf:
  - $ref: '#/components/schemas/PageHeader'
  - $ref: '#/components/schemas/SitesPage_allOf'
ResourceType:
enum:
  - service
  - device
type: string
ResourceStatus:
enum:
  - up
  - down
  - unknown
type: string
ResourceHealth:
  example:
    description: description
    id: id
  properties:
    id:
format: uuid
type: string
email:
  format: email
type: string
username:
  type: string
type: object
body:
  properties:
    grant_type:
      type: string
    username:
      type: string
    password:
      format: password
type: string
access_token:
  type: string
switch_username:
  type: string
tenant_id:
  format: uuid
type: string
scope:
  type: string
nonce:
  type: string
tenant_name:
  type: string
required:
- grant_type
type: object
Role:
example:
  permissions:
- permissions
- permissions
  name: name
description: description
id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  id:
    format: uuid
type: string
  name:
    type: string
description:
type: string
permissions:
  items:
    type: string
type: array
Tenant:
allOf:
  - $ref: '#/components/schemas/Tenant_allOf'
  - $ref: '#/components/schemas/TenantCreate'
TenantCreate:
example:
  image: image
  numberOfChildren: 0
  name: name
  description: description
  url: url
  parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
description:
  maxLength: 512
  minLength: 1
  type: string
url:
  type: string
image:
  maxLength: 40000
  type: string
parentID:
  format: uuid
type: string
numberOfChildren:
  format: int64
  readOnly: true
  type: integer
required:
  - name
type: object
TenantUpdate:
example:
  image: image
  numberOfChildren: 0
  name: name
  description: description
url: url
parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
  description:
    maxLength: 512
    minLength: 1
    type: string
  url:
    type: string
  image:
    maxLength: 40000
    type: string
  parentId:
    format: uuid
    type: string
  numberOfChildren:
    format: int64
    readOnly: true
    type: integer
required:
- name
  type: object
TenantPage:
allOf:
- $ref: '#/components/schemas/PageHeader'
- $ref: '#/components/schemas/TenantsPage_allOf'
User:
allOf:
- $ref: '#/components/schemas/User_allOf'
- $ref: '#/components/schemas/UserCreate'
UserCreate:
allOf:
- $ref: '#/components/schemas/UserUpdate'
- $ref: '#/components/schemas/UserCreate_allOf'
UserUpdate:
  example:
    firstName: firstName
    lastName: lastName
    roleIds:
      - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
      - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    passwordPolicyName: passwordPolicyName
    email: email
    tenantIds:
properties:
  firstName:
    type: string
lastName:
  type: string
email:
  format: email
type: string
roleIds:
  items:
    format: uuid
type: array
tenantIds:
  items:
    format: uuid
type: array
passwordPolicyName:
  type: string
required:
  - email
  - lastName
  - passwordPolicyName
type: object

UpdatePassword:
example:
  oldPassword: oldPassword
  newPassword: newPassword
  username: username
properties:
  username:
    type: string
  oldPassword:
    format: password
type: string
  newPassword:
    format: password
type: string
required:
  - newPassword
  - oldPassword
  - username
type: object

UsersPage:
allOf:
StartWorkflowResponse:

definition_id: definition_id
base_type: base_type
created_on: created_on
schema_id: schema_id
id: id
type: type
version: version
created_by: created_by
status:
  key: '{}'
properties:
id:
type: string
definition_id:
type: string
schema_id:
type: string
type:
type: string
base_type:
type: string
status:
  additionalProperties:
    type: object
type: object
version:
type: string
created_by:
type: string
created_on:
  type: string
  type: object
ValidateWorkflowResponse:
  example:
    workflow_valid: true
    total_valid: 6
    total_actions: 0
    invalid_action_ids:
      - invalid_action_ids
      - invalid_action_ids
  properties:
    total_actions:
      type: integer
    total_valid:
      type: integer
    workflow_valid:
      type: boolean
    invalid_action_ids:
      items:
        type: string
      type: array
  type: object
Workflow:
  allOf:
    - $ref: '#/components/schemas/Workflow_allOf'
    - $ref: '#/components/schemas/WorkflowFooter'
WorkflowMetadata:
  properties:
    git_info:
      $ref: '#/components/schemas/WorkflowMetadata_git_info'
  type: object
WorkflowVariable:
  allOf:
    - $ref: '#/components/schemas/WorkflowVariable_allOf'
    - $ref: '#/components/schemas/WorkflowFooter'
WorkflowAction:
  example:
    workflow_id: workflow_id
    ended_on: ended_on
    object_type: object_type
    blocks:
      - unique_name: unique_name
        workflow_id: workflow_id
        base_type: base_type
        object_type: object_type
        subworkflow_id: subworkflow_id
        name: name
schema_id: schema_id
title: title
type: type
version: version
actions:
  - null
  - null
properties:
  key: '{}'    
- unique_name: unique_name
workflow_id: workflow_id
base_type: base_type
object_type: object_type
subworkflow_id: subworkflow_id
name: name
schema_id: schema_id
title: title
type: type
version: version
actions:
  - null
  - null
properties:
  key: '{}'    
description: description
title: title
type: type
output:
  key: '{}'    
definition_id: definition_id
unique_name: unique_name
base_type: base_type
started_on: started_on
schema_id: schema_id
name: name
adapter_id: adapter_id
id: id
started_by: started_by
properties:
  key: '{}'    
status:
  key: '{}'    
properties:
  id:
    type: string
workflow_id:
    type: string
definition_id:
type: string
schema_id:
  type: string
adapter_id:
  type: string
unique_name:
  type: string
name:
  type: string
title:
  type: string
type:
  type: string;base_type:
  type: string
properties:
  additionalProperties:
    type: object
type: object
object_type:
  type: string
started_by:
  type: string
blocks:
  items:
    $ref: '#/components/schemas/WorkflowActionBlock'
  type: array
status:
  additionalProperties:
    type: object
type: object
description:
  type: string
output:
  additionalProperties:
    type: object
type: object
started_on:
  type: string
derived_on:
  type: string
WorkflowActionBlock:
example:
  unique_name: unique_name
  workflow_id: workflow_id
  base_type: base_type
  object_type: object_type
subworkflow_id: subworkflow_id
name: name
schema_id: schema_id
title: title
type: type
version: version
actions:
- null
- null
properties:
  key: '

properties:
  unique_name:
    type: string
name:
  type: string
title:
  type: string
type:
  type: string
version:
  type: string
base_type:
  type: string
properties:
  additionalProperties:
    type: object
    type: object
object_type:
  type: string
actions:
  items:
    $ref: '#/components/schemas/WorkflowAction'
type: array
subworkflow_id:
  type: string
workflow_id:
  type: string
schema_id:
  type: string
type: object
WorkflowMapping:
example:
  modifiedOn: modifiedOn
uniqueName: uniqueName
createdBy: createdBy
modifiedBy: modifiedBy
id: id
createdOn: createdOn
tenantIds:
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  id:
    type: string
tenantIds:
  items:
    format: uuid
    type: string
type: array
uniqueName:
  type: string
createdBy:
  type: string
createdOn:
  type: string
modifiedBy:
  type: string
modifiedOn:
  type: string
type: object
WorkflowStartConfig:
example:
  input_variables:
    - null
    - null
  type_of_target_needed: type_of_target_needed
target_id: target_id
properties:
  input_variables:
    items:
      $ref: '#/components/schemas/WorkflowVariable'
      type: array
      type_of_target_needed:
        type: string
target_id:
        type: string
type: object
WorkflowCategory:
allOf:
  - $ref: '#/components/schemas/WorkflowCategory_allOf'
  - $ref: '#/components/schemas/WorkflowFooter'
WorkflowCategoryCreate:
example:
  unique_name: unique_name
  name: name
schema_id: schema_id
description: description
title: title
properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
title:
    maxLength: 128
    minLength: 1
    type: string
description:
    maxLength: 256
    minLength: 1
    type: string
  schema_id:
    type: string
  unique_name:
    type: string
required:
- description
- name
- schema_id
- title
type: object
WorkflowCategoryUpdate:
example:
  unique_name: unique_name
  name: name
  schema_id: schema_id
  description: description
  title: title
properties:
  name:
    maxLength: 128
    minLength: 1
    type: string
title:
    maxLength: 128
    minLength: 1
    type: string
description:
    maxLength: 256
    minLength: 1
    type: string
  schema_id:
    type: string
unique_name:
  type: string
required:
- description
- name
- schema_id
- title
type: object
WorkflowEvent:
allOf:
- $ref: '#/components/schemas/WorkflowEvent_allOf'
- $ref: '#/components/schemas/WorkflowFooter'
WorkflowEventCreate:
allOf:
- $ref: '#/components/schemas/WorkflowEventUpdate'
WorkflowEventUpdate:
example:
schema_id: schema_id
description: description
target_id: target_id
title: title
properties:
  key: '{}'
properties:
title:
  type: string
description:
  type: string
target_id:
  type: string
schema_id:
  type: string
properties:
  additionalProperties:
    type: object
    type: object
required:
- properties
- schema_id
- target_id
- title
type: object
WorkflowInstance:
allOf:
- $ref: '#/components/schemas/WorkflowInstance_allOf'
- $ref: '#/components/schemas/WorkflowFooter'
WorkflowInstanceDeleteResponse:
example:
deleted_child_workflow_instance_ids:
- deleted_child_workflow_instance_ids
- deleted_child_workflow_instance_ids
properties:
deleted_child_workflow_instance_ids:
  items:
   type: string
   type: array
type: object
WorkflowSchema:
allOf:
- $ref: '#/components/schemas/WorkflowSchema_allOf'
- $ref: '#/components/schemas/WorkflowFooter'
WorkflowAccessMeta:
properties:
  adapter:
    $ref: '#/components/schemas/WorkflowAccessMetaType'
  runtime_users:
    items:
      $ref: '#/components/schemas/WorkflowAccessMetaType'
type: array
targets:
  items:
    $ref: '#/components/schemas/WorkflowAccessMetaType'
type: array
is_integration:
type: boolean
is_internal:
type: boolean
type: object
WorkflowAccessMetaType:
properties:
id:
  type: string
type:
  type: string
version:
  type: string
type: object
WorkflowSchemaByTypeResponse:
example: {}
properties:
  view_schema:
    $ref: '#/components/schemas/WorkflowSchema'
  data_schema:
    $ref: '#/components/schemas/WorkflowSchema'
type: object
WorkflowTarget:
allOf:
- $ref: '#/components/schemas/WorkflowTarget_allOf'
- $ref: '#/components/schemas/WorkflowFooter'

WorkflowDefAccessMeta:
properties:
is_integration:
type: boolean
is_internal:
type: boolean
type: object

WorkflowTargetCreate:
allOf:
- $ref: '#/components/schemas/WorkflowTargetUpdate'

WorkflowTargetUpdate:
example:
  unique_name: unique_name
  name: name
  schema_id: schema_id
  description: description
  title: title
  type: type
  properties:
    key: '{}'
    properties:
      name:
        type: string
      description:
        type: string
      title:
        type: string
      schema_id:
        type: string
      type:
        type: string
        properties:
          additionalProperties:
            type: object
            type: object
          unique_name:
            type: string
          required:
            - name
            - properties
            type: object

WorkflowMetadata_git_info:
properties:
  target_id:
    type: string
commit_hash:
  type: string
comitted_by:
  type: string
comitted_on:
  type: string
commit_message:
  type: string
type: object
ErrorDTO:
  properties:
    code:
      readOnly: true
      type: string
    message:
      readOnly: true
      type: string
type: object
ManagedDeviceSiteDTO:
  example:
    templateDetails:
      - templateName: templateName
deviceParams:
      - allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
- allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type
value: value
toolTipText: toolTipText
templateId: templateId
- templateName: templateName
deviceParams:
  - allowedValues: allowedValues
displayType: displayType
hintText: hintText
name: name
label: label
type: type

items:
  $ref: '#/components/schemas/ManagedDeviceTemplateDetailsDTO'
type: array
tenantId:
type: string
siteId:
type: string
siteName:
type: string
tenantName:
type: string
tenantDisplayName:
type: string
siteDescription:
type: string
subscriptionId:
type: string
deviceInstanceId:
type: string
deviceInterfaces:
  items:
    $ref: '#/components/schemas/ManagedDeviceDeviceInterfaceDTO'
type: array
siteInfo:
  additionalProperties:
    type: string
type: object
deviceSerial:
type: string
deviceModel:
type: string
deviceOnboardingType:
type: string
deviceIpAddress:
type: string
devicePort:
type: string
deviceUsername:
type: string
devicePassword:
type: string
deviceSecondaryPassword:
type: string
deviceNedId:
type: string
deviceType:
type: string
enableSecureTunnel:
type: string
modifiedOn:
  type: string
type: object
ManagedDeviceTemplateDetailsDTO:
example:
  templateName: templateName
deviceParams:
  - allowedValues: allowedValues
displayType: displayType
hintText: hintText
  name: name
  label: label
type: type
value: value
toolTipText: tooTipText
  - allowedValues: allowedValues
displayType: displayType
hintText: hintText
  name: name
  label: label
type: type
value: value
toolTipText: tooTipText
templateId: templateId
properties:
  templateId:
    type: string
templateName:
    type: string
deviceParams:
  items:
    $ref: '#/components/schemas/ManagedDeviceParameter'
type: array
type: object
ManagedDeviceParameter:
example:
  allowedValues: allowedValues
displayType: displayType
hintText: hintText
  name: name
  label: label
type: type
value: value
toolTipText: tooTipText
properties:
  name:
    type: string

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hintText:
  type: string
label:
  type: string
type:
  type: string
displayType:
  type: string
allowedValues:
  type: string
value:
  type: string
toolTipText:
  type: string
type: object
ManagedDeviceDeviceInterfaceDTO:
example:
  nedId: nedId
roles:
  - roles
  - roles
name: name
snmp: snmp
properties:
  name:
    type: string
  roles:
    items:
      type: string
  type: array
snmp:
  type: string
nedId:
  type: string
type: object
ManagedDeviceTemplateDTO:
example:
  sitesList:
    - sitesList
    - sitesList
  templateName: templateName
  payload: payload
  validators:
    - '{ }'
    - '{ }'
  tenantList:
    - tenantList
    - tenantList
description: description
templateId: templateId

properties:
templateId:
  type: string
templateName:
  type: string
payload:
  type: string
description:
  type: string

sitesList:
  items:
    type: string
type: array

tenantList:
  items:
    type: string
type: array

validators:
  items:
    type: object
type: array

Error:
properties:
  code:
    readOnly: true
    type: string
  message:
    readOnly: true
    type: string
type: object

NameValue:
example:
  name: name
  value: value

properties:
  name:
    type: string
  value:
    type: string
type: object

StringArray:
items:
  type: string
type: array

UuidArray:
items:
  format: uuid
  type: string
  type: array
PageHeader:
  properties:
    page:
      format: int32
    readOnly: true
    type: integer
    pageSize:
      format: int32
    readOnly: true
    type: integer
    totalItems:
      format: int64
    readOnly: true
    type: integer
    hasNext:
      nullable: true
    readOnly: true
    type: boolean
    hasPrevious:
      nullable: true
    readOnly: true
    type: boolean
    sortBy:
      readOnly: true
    type: string
    sortOrder:
      enum:
        - asc
        - desc
      readOnly: true
    type: string
Name:
  maxLength: 128
  minLength: 1
  type: string
Label:
  maxLength: 128
  minLength: 1
  type: string
Description:
  maxLength: 512
  minLength: 1
  type: string
Product_allOf:
  properties:
    id:
      format: uuid
      readOnly: true
      type: string
ProductsPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Product'
      type: array
Offer_allOf:
  properties:
    id:
      format: uuid
      type: string
OffersPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Offer'
      type: array
Device_allOf:
  properties:
    id:
      type: string
    userId:
      format: uuid
      type: string
    providerId:
      format: uuid
      type: string
    createdOn:
      format: date-time
      type: string
    modifiedOn:
      format: date-time
      type: string
DeviceCreate_allOf:
  properties:
    serviceId:
      type: string
    subscriptionId:
      type: string
    tenantId:
      format: uuid
      type: string
required:
- tenantId

DevicesPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Device'
        type: array

DeviceTemplate_allOf:
  properties:
    id:
      format: uuid
      readOnly: true
      type: string
    userId:
      format: uuid
      readOnly: true
      type: string
    createdOn:
      format: date-time
      readOnly: true
      type: string

ServicesPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Service'
        type: array

SiteCreate_allOf:
  properties:
    tenantId:
      format: uuid
      type: string
    deviceIds:
      items:
        type: string
        type: array
    required:
      - deviceIds
      - tenantId

SitesPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Site'
        type: array

Tenant_allOf:
  properties:
type:
    type: string
base_type:
    type: string
schema_id:
    type: string
object_type:
    type: string
properties:
    additionalProperties:
        type: object
        type: object
data_type:
    type: string
scope:
    type: string
WorkflowCategory_allOf:
properties:
    id:
        type: string
    schema_id:
        type: string
    name:
        type: string
title:
        type: string
type:
        type: string
base_type:
    type: string
description:
    type: string
category_type:
    type: string
object_type:
    type: string
WorkflowEvent_allOf:
properties:
    id:
        type: string
name:
    type: string
title:
    type: string
type:
    type: string
base_type:
schema_id:
  type: string
properties:
  additionalProperties:
    type: object
type: object
WorkflowInstance_allOf:
properties:
id:
  type: string
definition_id:
  type: string
name:
  type: string
schema_id:
  type: string
version:
  type: string
type:
  type: string
base_type:
  type: string
properties:
  additionalProperties:
    type: object
type: object
actions:
items:
  $ref: '#/components/schemas/WorkflowAction'
type: array
variables:
items:
  $ref: '#/components/schemas/WorkflowVariable'
type: array
status:
additionalProperties:
  type: object
type: object
started_on:
  type: string
ended_on:
  type: string
WorkflowSchema_allOf:
properties:
id:
  type: string
schema_id:
  type: string
name:
  type: string
title:
  type: string
description:
  type: string
type:
  type: stringase_type:
  type: string
version:
  type: string
invisible:
  type: boolean
inherits:
  type: string
access_meta:
  $ref: '#/components/schemas/WorkflowAccessMeta'
variable_schema:
  additionalProperties:
    type: object
type: object
property_schema:
  additionalProperties:
    type: object
type: object
output_schema:
  additionalProperties:
    type: object
type: object
view_config:
  additionalProperties:
    type: object
type: object
attributes:
  additionalProperties:
    type: object
type: object
WorkflowTarget_allOf:
properties:
  id:
    type: string
  schema_id:
    type: string
  adapter_id:
    type: string
  name:
    type: string
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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

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.208 slf4j-log4j-12-binding 1.7.5
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1.209 ncurses 6.1+20180630
1.209.1 Available under license:

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Upstream source https://invisible-island.net/ncurses/ncurses.html
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1.210 shiro-lang 1.4.1
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1.211 zlib 1.2.11

1.211.1 Available under license:

/* 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).
*/
1.212 gnutls 3.6.7-4+deb10u5
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1.216 tomcat-embed-websocket 8.5.11

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1.217 iancoleman-strcase v0.0.0-
20191112232945-16388991a334

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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/DefaultTypeDefinitions.java
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/TypeNameIndexingAdapter.java

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1.234 jipijapa-spi 19.1.0.Final

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1.235 bcprov-ext-jdk15on 1.60

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 * 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.
 * <p>
 * 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).
 * @see Poly1305KeyGenerator
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 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being
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 * </p>
 * <p>
 * The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
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1.236 sensible-utils 0.0.12

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1.237 jcodings 1.0.12
1.238 neo4j-collections 3.5.4

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* /opt/ws_local/PERMITS_SQL/1074015419_1595536407.11/0/spring-data-rest-core-2-6-1-release-sources-
jar/org/springframework/data/rest/core/config/EntityLookupRegistrar.java
* /opt/ws_local/PERMITS_SQL/1074015419_1595536407.11/0/spring-data-rest-core-2-6-1-release-sources-
jar/org/springframework/data/rest/core/config/EntityLookupConfiguration.java
*/

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jar/org/springframework/data/rest/core/mapping/MappingResourceMetadata.java
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* /opt/ws_local/PERMITS_SQL/1074015419_1595536407.11/0/spring-data-rest-core-2-6-1-release-sources-
jar/org/springframework/data/rest/core/UriToEntityConverter.java
* /opt/ws_local/PERMITS_SQL/1074015419_1595536407.11/0/spring-data-rest-core-2-6-1-release-sources-
jar/org/springframework/data/rest/core/ValidationErrors.java
* /opt/ws_local/PERMITS_SQL/1074015419_1595536407.11/0/spring-data-rest-core-2-6-1-release-sources-
jar/org/springframework/data/rest/core/config/RepositoryRestConfiguration.java

1.240 x-time-rate v0.0.0-20190308202827-9d24e82272b4

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1.241 cxf-tools-wsdlto-frontend-jaxws 3.3.6
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1.242 traceroute 2.0.21

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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.

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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 written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.
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1.246 persistence-api 1.0.0.Final

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
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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
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1.267 dmidecode 3.1

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1.276 zlib 1.2.11

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1.283 nginx 1.13.9

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1.294 angular-platform-browser-dynamic

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1.296 pygobject 3.20.0 0ubuntu1

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1.302 wildfly-microprofile-jwt-smallrye

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* /opt/ws_local/PERMITS_SQL/1094801517_1601320677.24/0/wildfly-microprofile-jwt-smallrye-19-1-0-final-
sources-jar/org/wildfly/extension/microprofile/jwt/smallrye/MicroProfileSubsystemDefinition.java
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jar/io/netty/buffer/UnpooledSlicedByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
jar/io/netty/buffer/PoolSubpageMetric.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
jar/io/netty/buffer/PoolChunkListMetric.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
jar/io/netty/buffer/UnsafeByteBufUtil.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
jar/io/netty/buffer/PoolArenaMetric.java
* /opt/cola/permits/1110676930_1606843883.95/0/netty-buffer-4-1-32-final-sources-2-
jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
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1.318 sshd-core 2.1.0

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1.321 tpm-quote-tools 1.0.1

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1.322 libpcap 1.7.4-2

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1.339 minimal-json 0.9.4

1.340 bcprov-ext-jdk15on 1.64

1.340.1 Available under license:

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

```java
public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1029654151_1591356444.74/0/bcprov-ext-jdk15on-1-64-sources-
  jar/org/bouncycastle/asn1/x9/DomainParameters.java
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```java
// now keep space is free to use
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1029654151_1591356444.74/0/bcprov-ext-jdk15on-1-64-sources-
  jar/org/bouncycastle/pqc/crypto/gmss/GMSSPrivateKeyParameters.java
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```java
/**
 * The Bouncy Castle License
 *
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*/

Found in path(s):
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jar/org/bouncycastle/LICENSE.java
No license file was found, but licenses were detected in source scan.

/**
 * Magic value for proprietary OpenSSH private key.
 ***/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1029654151_1591356444.74/0/bcprov-ext-jdk15on-1-64-sources-
jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
No license file was found, but licenses were detected in source scan.

/**
 * Poly1305 message authentication code, designed by D. J. Bernstein.
 *<p>
 * 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.
 *<p>
 * 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).
 *@see Poly1305KeyGenerator
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1029654151_1591356444.74/0/bcprov-ext-jdk15on-1-64-sources-
jar/org/bouncycastle/crypto/macs/Poly1305.java
No license file was found, but licenses were detected in source scan.

/**
 * 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>
 */

* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
1.341 libvmtools 10.1.5.59732

1.341.1 Available under license:

LICENSE

Open-vm-tools v10.1.5

The Linux kernel modules are released under the GPL v2, a majority of the user level components are released under the LGPL v2.1, and the SVGA and mouse drivers are released under the X11 license.

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Version 2, June 1991

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>>> libmspack-0.0.20040308alpha

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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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>>> icu4c-4.4.1

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. 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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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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*/
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
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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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
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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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): $(OBJS)
$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(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:
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Theodore Ts'o
23-June-2007

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1.347 zookeeper 3.4.9-1757313

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nameLjava/lang/String;url<init>'(Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTable
this/Lorg/apache/ivy/core/module/descriptor/License;getName()Ljava/lang/String;getUrl
SourceFileLicense.java-org/apache/ivy/core/module/descriptor/Licensejava/lang/Object()V!
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1.348 perl 5.28.1 6

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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\n    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
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
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The End

#!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) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$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;
    }

1.349 libffi 3.2.1 9

1.349.1 Available under license :

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jar/com/esotericsoftware/kryo/serializers/DefaultClassResolver.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/ClassResolver.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
1.354 yaml 3.0.0-20200313102051-9f266ea9e77c

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1.360 opentracing-go 1.1.0

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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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* 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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  jar/org/objectweb/asm/commons/GeneratorAdapter.java
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* THE POSSIBILITY OF SUCH DAMAGE.
Constructs a new [Textifier]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [Textifier(int)]
version.

@throws IllegalStateException

If a subclass calls this constructor.

/*
/**
 * Constructs a new [ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ClassNode(int)]
 * version.
 *
 * @throws UnsupportedOperationException

*
// @throws IllegalStateException
// If a subclass calls this constructor.

/**
   * 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):
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  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Shrinker.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/SourceValue.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Remapper.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/asm-5-0-4-sources-6.jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/util/TraceSignatureVisitor.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/frame/Frame.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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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-properties
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/TypeReference.java

1.362 hazelcast-client-protocol 1.4.1

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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;
    }

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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 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 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;
}

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*/

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;
            } 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;
            }
        }
        return mask;
    }
}
} else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
} else if (ActionConstants.ACTION_ALL.equals(action)) {
    return ALL;
}

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_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}
} 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;

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 || name.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;
}

@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;
            } else 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;
            } else 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;
    }
}

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 */
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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    */
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;

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
define boolean implies(Permission permission) {
define for (Permission p : perms) {
define if (p.implies(permission)) {
define return true;
} }
define return false;
}

define public void compact() {
define if (isReadOnly()) {
define throw new SecurityException("ClusterPermissionCollection is read-only!");
} 
define final Iterator<Permission> iter = perms.iterator();
define while (iter.hasNext()) {
define final Permission perm = iter.next();
define boolean implies = false;
define for (Permission p : perms) {
define if (p != perm && p.implies(perm)) {
define implies = true;
define break;
} }
define if (implies) {
define iter.remove();
} 
define setReadOnly();
}

@override
define public Enumeration<Permission> elements() {
define return Collections.enumeration(perms);
}

define public set<Permission> getPermissions() {
define return Collections.unmodifiableSet(perms);
}

@override
define public string toString() {
define return "ClusterPermissionCollection [permClass=" + permClass + "]";
}
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*/

package com.hazelcast.security.permission;

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 AtomicLongPermission(name, 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 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);
}

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;
}

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;

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limitations under the License.
*/
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;
}

package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;

public Source Used In MSX SD-WAN Service Pack 4.0.0  2862
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;
}

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

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 */
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;
            }
        }
    }
}

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 */
@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;
}
}

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {
    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}

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*/
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) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        if (getName() == null) {
            return getClass() != obj.getClass();
        }
        return true;
    }

    @Override
    public String toString() {
        return getName();
    }

    @Override
    public boolean canRetainPermission() {
        return true;
    }

    @Override
    public void retainPermission() {
    }

    @Override
    public void unretainPermission() {
    }
}

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*/
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;
            }
            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 LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, 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_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        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;
        }
        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;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

---

1.363 open-csv 4.2
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* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/bean/FieldMapByPosition.java
* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/bean/BeanFieldJoinIntegerIndex.java
* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/bean/BeanFieldJoinStringIndex.java
* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/bean/AbstractMappingStrategy.java
* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/bean/CsvNumber.java
* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/bean/ConverterNumber.java
* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/bean/AbstractFieldMapEntry.java

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* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/exceptions/CsvBadConverterException.java
* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/exceptions/CsvRuntimeException.java
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* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/CSVParseBuilder.java
jar/com/opencsv/ResultSetHelperService.java
* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1.jar/com/opencsv/CSVReaderBuilder.java
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* *
* The purpose of the CSVParser is to take a single string and parse it into
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* *
* 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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* /opt/cola/permits/1139559328_1614663963.6/0/opencsv-4-2-sources-1-jar/com/opencsv/bean/BeanFieldSingleValue.java
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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
* 
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable} to use {@link
*     ImmutableSortedMap#of(Comparable, Object)}.</b>
*/

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java

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  jar/com/google/common/collection/CompoundOrdering.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ConcurrentHashMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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   jar/com/google/common/util/concurrent/AtomicLongMap.java
   */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/WellBehavedMap.java
   */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/GwtTransient.java
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   jar/com/google/common/collection/ImmutableTable.java
   */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
   */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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   */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/RegularImmutableList.java
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   jar/com/google/common/collection/ArrayTable.java
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   jar/com/google/common/collection/ComputationException.java
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  jar/com/google/common/collection/JdkBackedImmutableMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/IndexedImmutableSet.java

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  jar/com/google/common/util/concurrent/UncheckedExecutionException.java
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  jar/com/google/common/math/LongMath.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/math/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/Funnels.java
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/
jar/com/google/common/hash/Striped64.java
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jar/com/google/common/hash/LongAdder.java
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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jar/com/google/common/base/SmallCharMatcher.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/MoreObjects.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
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  jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/ImmutableSortedMultiset.java

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*/
/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 * 
 * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

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  jar/com/google/common/util/concurrent/Partially.java
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  jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Futures.java

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* */
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ForwardingListMultimap.java

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  jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/hash/AbstractHashFunction.java
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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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  jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/CommonMatcher.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Verify.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/AbstractTable.java
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jar/com/google/common/collection/FilteredMultimapValues.java
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jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/VerifyException.java
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jar/com/google/common/util/concurrent/Runnables.java
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jar/com/google/common/hash/package-info.java
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jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Objects.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Function.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/LittleEndianDataInputstream.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/package-info.java
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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  jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/JdkBackedImmutableSet.java

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  jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/Traverser.java

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/*
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  jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/RateLimiter.java
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  jar/com/google/common/collect/ImmutableRangeMap.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/math/StatsAccumulator.java
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jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/reflect/Parameter.java
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jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/reflect/ClassPath.java
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jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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jar/com/google/common/util/concurrent/SmoothRateLimiter.java
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jar/com/google/common/reflect/ImmutableRangeSet.java
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jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/LongAddable.java
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jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeCapture.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CharSource.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteProcessor.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/MapMaker.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableTable.java
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jar/com/google/common/primitives/Doubles.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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1.381 libjpeg 6b
1.381.1 Notifications :
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==========================================
README for release 6b of 27-Mar-1998
==========================================

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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
=======================

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 cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

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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ans12knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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.

We are required to state that
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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 numbers ISO/IEC IS 10918-2, ITU-T T.83.

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 ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme 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 from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
=================

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/faq/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/.

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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

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.

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1.396 d3 3.5.17

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* /opt/cola/permits/1147423600_1617010750.84/0/spring-orm-4-3-7-release-sources-4-jar/org/springframework/orm/jpa/support/OpenSessionInViewFilter.java
* /opt/cola/permits/1147423600_1617010750.84/0/spring-orm-4-3-7-release-sources-4-jar/org/springframework/orm/jpa/LocalContainerEntityManagerFactoryBean.java
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/**
 * Create a transactional EntityManager proxy for the given EntityManagerFactory.
 * @param emf 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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jar/org/springframework/orm/hibernate3/support/BlobSerializableType.java
* /opt/cola/permits/1147423600_1617010750.84/0/spring-orm-4-3-7-release-sources-4-
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* /opt/cola/permits/1147423600_1617010750.84/0/spring-orm-4-3-7-release-sources-4-
  jar/org/springframework/orm/jdo/JdoDialect.java
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* /opt/cola/permits/1147423600_1617010750.84/0/spring-orm-4-3-7-release-sources-4-
  jar/org/springframework/orm/jdo/support/SpringPersistenceManagerProxyImpl.java
* /opt/cola/permits/1147423600_1617010750.84/0/spring-orm-4-3-7-release-sources-4-
  jar/org/springframework/orm/jpa/persistenceunit/SpringPersistenceUnitInfo.java
* /opt/cola/permits/1147423600_1617010750.84/0/spring-orm-4-3-7-release-sources-4-
  jar/org/springframework/orm/jdo/PersistenceManagerFactoryUtils.java
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#ifndef __LICENSE_H
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static inline int license_is_gpl_compatible(const char *license)
{

```
#endif

/* 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_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
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* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
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  jar/org/springframework/classify/ClassifierSupport.java
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
* /opt/cola/permits/1135864284_1613618157.58/0/spring-retry-1-2-5-release-sources-1-
  jar/org/springframework/classify/BackToBackPatternClassifier.java
*/
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1.432 resourcelocator 1.0.1

1.433 slf4j-api 1.7.7

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1.434 zstd 1.4.4-7

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* /opt/ws_local/PERMITS_SQL/1094802239_1601321318.67/0/wildfly-elytron-sasl-gssapi-1-11-4-final-sources.jar/org/wildfly/security/sasl/gssapi/GssapiClientFactory.java
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1.444 agroal-narayana 1.3

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1.445 binutils 2.3

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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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1.454 libdnet 1.12

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*
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1.455 urllib3 1.22

1.456 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
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:

.. 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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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
b  4096 20479   16384    8M unused       0     0   0
c  0 16064  16065  7.9M unused       0     0   0

d 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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1.461 tar 1.3

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  jar/org/eclipse/jgit/transport/RemoteRefUpdate.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/PackReverseIndex.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/util/io/TimeoutInputStream.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/io/UnionInputStream.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/merge/MergeAlgorithm.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/merge/MergeFormatter.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/attributes/FilterCommandFactory.java

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  jar/org/eclipse/jgit/lib/SubmoduleConfig.java
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  jar/org/eclipse/jgit/events/IndexChangedListener.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/internal/storage/pack/ObjectToPack.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/PushCertificateStore.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/PushCertificate.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/DirCacheNameConflictException.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/PackedObjectInfo.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
  /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/treewalk/TreeWalk.java
  /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/dircache/DirCacheEditor.java
  /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/dircache/DirCacheIterator.java
  /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/dircache/DirCacheBuilder.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/dircache/DirCacheTree.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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/**
* {@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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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
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  jar/org/eclipse/jgit/errors/PackInvalidException.java
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  jar/org/eclipse/jgit/util/io/InterruptTimer.java
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  jar/org/eclipse/jgit/revwalk/FooterKey.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/lib/RepositoryCache.java
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  jar/org/eclipse/jgit/merge/ThreeWayMergeStrategy.java
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  jar/org/eclipse/jgit/errors/ConfigInvalidException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/revwalk/filter/PathSuffixFilter.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/PendingGenerator.java
* /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/errors/IndexReadException.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/events/ConfigChangedEvent.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/notes/NoteMap.java
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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
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jar/org/eclipse/jgit/internal/storage/dfs/PackInputStream.java
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jar/org/eclipse/jgit/lib/StoredConfig.java
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jar/org/eclipse/jgit/errors/NoWorkTreeException.java
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jar/org/eclipse/jgit/diff/LowLevelDiffAlgorithm.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/AsyncObjectLoaderQueue.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/AsyncOperation.java
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* /opt/cola/permits/1110676752_1606834642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/fnmatch/AbstractHead.java
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  jar/org/eclipse/jgit/hooks/PrePushHook.java
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  jar/org/eclipse/jgit/hooks/PreCommitHook.java
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  jar/org/eclipse/jgit/hooks/GitHook.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/hooks/CommitMsgHook.java
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  jar/org/eclipse/jgit/transport/WalkFetchConnection.java
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jar/org/eclipse/jgit/transport/SshSessionFactory.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/transport/FetchProcess.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/transport/SideBandInputStream.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/PackIndexWriter.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/gitrepo/RepoCommand.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/diff/RawText.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/CredentialsProvider.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/MissingObjectException.java
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jar/org/eclipse/jgit/api/errors/PatchApplyException.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{TransportException}.
 * <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{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
addition 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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  jar/org/eclipse/jgit/transport/http/JDKHttpConnection.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/transport/http/JDKHttpConnectionFactory.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/api/RemoteListCommand.java
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  jar/org/eclipse/jgit/submodule/SubmoduleWalk.java
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  jar/org/eclipse/jgit/api/SubmoduleAddCommand.java
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  jar/org/eclipse/jgit/submodule/SubmoduleStatusType.java
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  jar/org/eclipse/jgit/api/SubmoduleInitCommand.java
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  jar/org/eclipse/jgit/api/SubmoduleSyncCommand.java
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  jar/org/eclipse/jgit/api/BlameCommand.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/api/AddNoteCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/api/ReflogCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/api/RemoveNoteCommand.java
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  jar/org/eclipse/jgit/internal/ketch/TimeIsUncertainException.java
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  jar/org/eclipse/jgit/util/time/ProposedTimestamp.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/storage/referee/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
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/util/Paths.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/internal/ketch/StageBuilder.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/AdvertiseRefsHook.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/errors/NotSupportedException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/lib/ProgressMonitor.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/filter/OrRevFilter.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/OrRevFilter.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/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/lib/ReflogReader.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/RevFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
 jar/org/eclipse/jgit/errors/CompoundException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
 jar/org/eclipse/jgit/treewalk/filter/TreeFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
 jar/org/eclipse/jgit/revwalk/BlockObjQueue.java
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 jar/org/eclipse/jgit/internal/storage/file/DeltaBaseCache.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
 jar/org/eclipse/jgit/transport/AmazonS3.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
 jar/org/eclipse/jgit/revwalk/RevFlag.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
 jar/org/eclipse/jgit/revwalk/filter/MessageRevFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/revwalk/TopoSortGenerator.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/util/FS.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/revwalk/TreeRevFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/revplot/PlotLane.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/util/MutableInteger.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/internal/storage/file/PackFile.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/RefLeaseSpec.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.jar/org/eclipse/jgit/lib/RefUpdate.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/JschSession.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/lib/BitmapObject.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/BitmapWalker.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/ChangeIdUtil.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/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/TransferConfig.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/transport/DaemonClient.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/patch/Patch.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/patch/HunkHeader.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/patch/FileHeader.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/merge/StrategySimpleTwoWayInCore.java

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  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
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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/AbstractTreeIterator.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/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/transport/resolver/ServiceNotAuthorizedException.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/util/io/MessageWriter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/resolver/RepositoryResolver.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/resolver/FileResolver.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/TrackingRefUpdate.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/PostUploadHook.java
* /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/Holder.java
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  java/...
jar/org/eclipse/jgit/util/io/EolStreamTypeUtil.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/util/io/AutoLFOutputStream.java

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That's all there is to it!

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1.494 curl 7.47.0 1ubuntu2.14
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libcurl can be built to use a fair amount of various third party libraries,
libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked
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distributing them as binaries would be to violate the GPL license - unless you
accompany your license with an exception[2]. This particular problem was
addressed when the Modified BSD license was created, which does not have the
announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

   Uses an MIT (or Modified BSD)-style license that is as liberal as
   possible.

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   a problem for you, consider using another TLS library. Also note that
   GnuTLS itself depends on and uses other libs (libgcrypt and
   libgpg-error) and they too are LGPL- or GPL-licensed.
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(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.zlib.net/zlib_license.html

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MIT Kerberos http://web.mit.edu/kerberos/www/dist/
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(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.

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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/NameRewriter.java

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 * to the given principal. Implementors must make sure that the returned collection is immutable.
 * @param permissionMappable the object to which permissions can be mapped (must not be { @code null})
 * @param roles a set of effective roles after all role mapping was applied by security domain (may be { @code
 * null})
 * @return a permission verifier (not { @code null})
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1.502 wildfly-weld 19.1.0.Final

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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
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/description/ModifierReviewable.java
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/matcher/MethodOverrideMatcher.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/dynamic/ClassFileLocator.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/description/annotation/package-info.java
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jar/net/bytebuddy/implementation/bytecode/Removal.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/description/modifier/EnumerationState.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/matcher/NegatingMatcher.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/implementation/bytecode/constant/SerializedConstant.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
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jar/net/bytebuddy/implementation/MethodDelegation.java
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jar/net/bytebuddy/asm/TypeReferenceAdjustment.java
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/description/annotation/AnnotationValue.java
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jar/net/bytebuddy/implementation/bytecode/constant/IntegerConstant.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/implementation/bytecode/constant/FloatConstant.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/description/modifier/Visibility.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/build/package-info.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/dynamic/scaffold/TypeValidation.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/asm/AsmVisitorWrapper.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/description/modifier/MethodStrictness.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
jar/net/bytebuddy/matcher/PrimitiveTypeMatcher.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/TypePath.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/AnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/MethodWriter.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/ByteVector.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/Type.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/AnnotationWriter.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/signature/SignatureWriter.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/Opcodes.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/Handle.java

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### 1.504 jackson-dataformat-cbor 2.8.6

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1.505 javax-websocket-client-impl
9.4.2.v20170220

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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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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
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,
    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

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/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
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    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,
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1.531 wildfly-sar 19.1.0.Final
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# hash.js [![Build Status](https://secure.travis-ci.org/indutny/hash.js.svg)](http://travis-ci.org/indutny/hash.js)

Just a bike-shed.

```sh
```

```bash
## Install

```sh
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```

## Usage

```js
```

```bash
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* /opt/ws_local/PERMITS_SQL/1047774605_1591431469.33/0/hash-js-1-1-7-3-tgz/package/lib/hash/utils.js

1.533 hppc 0.7.1
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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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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 :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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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
-----------------------------

The :mod:`xmlrpc.client` module contains the following notice::

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SipHash24
---------

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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 :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
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-------

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The :mod:`decimal` module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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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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1.542 libc 2.27-3ubuntu1

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<ul>
<li>Tito Pena &lt;Fortunato.Pena&#064;AdNovum.CH&gt; - initial RC5 implementation</li>
<li>Michael Lee &lt;yfl&#064;mira.net&gt; - initial RC6 implementation, MD2 implementation</li>
<li>Nuno Santos &lt;nsantos&#064;student.dei.uc.pt&gt; - finding toString bug in certificate object.</li>
<li>Brett Sealey &lt;bretts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).</li>
<li>Victor A. Salaman &lt;salaman&#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.</li>
<li>Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).</li>
<li>Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
<li>Markus Niedermann &lt;markus.niedermann&#064;softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
<li>Mike Benham &lt;moxie&#064;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.</li>
<li>Soren Hilmer &lt;hilmer&#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>
<li>Uwe Guenther &lt;uwe&#064;cscc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.</li>
<li>Markus Bradtke &lt;mab&#064;informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.</li>
<li>Waclaw Sierek &lt;waclaw.sierek&#064;tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.</li>
<li>Ly-Na Phu &lt;lyna.phu&#064;init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.</li>
<li>Stefan K&ouml;psell &lt;sk13&#064;mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see &lt;a href="http://sourceforge.net/projects/jcf/"&gt;http://sourceforge.net/projects/jcf/&lt;/a&gt;.</li>
<li>Carmen Bastiaans &lt;cbastiaa&#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>
<li>Tomas Gustavsson &lt;tomasg&#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.</li>
<li>Eugen Kuleshov &lt;euxx&#064;hotmail.com&gt; - optimisations for Blowfish, assistance with...
PKCS12/keytool interoperability.

- Megan Woods: Initial implementation of ECIES.

- Christian Geuer-Pollmann: Adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.

- Michael M: Contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.

- Michael Mansell: Initial implementation of DESedeWrap.

- Christian Geuer-Pollmann: Adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.

- Michael M: Contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.

- Michael Mansell: Initial implementation of DESedeWrap.

- Mike Bean: Fixing the fall through bug in the IV algorithm parameters class.

- Martin Petraschek: Fixing ASN1 tagging so tag values up to 30 are now supported.

- Jess Garms: Fixing 112/168 key size bug for DESede key generation.

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: Fixing the fall through bug in the IV algorithm parameters class.

- Martin Petraschek: Fixing ASN1 tagging so tag values up to 30 are now supported.

- Jess Garms: Fixing 112/168 key size bug for DESede key generation.

- Don Hillsberry: Fixing S/Mime testing and debugging.

- Kazuo Furuya: Fixing root certificate chaining bug in PKCS12 key store.

- Jason Novotny: Initial work on the openSSL PEM processing.

- Joel Hockey: Initial work on the openSSL PEM processing.

- John Steenbruggen: Fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

- Justin Chapweske: Ordering patch for Tiger message digest.

- John Sereck: Fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.

Compliance of KeyUsage extension return value with security API.
<li>Sascha Weinreuter &lt;Sascha.Weinreuter@cit.de&gt; - fixed SMIME saveChanges() bug.</li>
<li>Andrea Wehnert &lt;aw5@064@mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Luigi Lo Iacono &lt;lo_iacono@nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
<li>Tim Sakach &lt;tsakach@certivo.net&gt; - SMIME v2 compatibility patches.</li>
<li>Marcus Povey &lt;mpovey@064@brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.</li>
<li>Sebastian Clauß &lt;sc2@064@inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
<li>Nicolas Bielza &lt;nicolas.bielza@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.</li>
<li>Casey Marshall &lt;rsdio@metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.</li>
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<li>Jörg Gawor &lt;gawor@064@msc.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>
<li>Brett Neumeier &lt;random@rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>
<li>Graham Coles &lt;graham.coles@064@retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
<li>Jörg von Kattchee &lt;J.Kattchee@seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing multipart objects.</li>
<li>Matteo Artuso &lt;matartuso@064@libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>
<li>Julian Morrison &lt;julian@064@extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sonnenschein &lt;es0@064@esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
<li>Jörg Schwarze &lt;JSchwarze@064@ulc.de&gt; - Locale fix for the clean room JCE.</li>
<li>Bryan Lovquist &lt;bkl@064@cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy &lt;Artem_Portnoy@064@ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
<li>Michael Hauenstein &lt;hau@064@ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
<li>Johan Seland &lt;johans@064@netfonds.no&gt; - general toString for BigInteger class.</li>
<li>Johannes Nicolai &lt;johannes.nicolai@064@novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateIssuer.</li>
<li>Arkam Doberva &lt;arkam.doberva@064@ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
<li>Jan Dvorak &lt;jan.dvorak@064@mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>
<li>Joe Cohen &lt;jcohen@064@forumsy.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>
<li>Chris Long &lt;aclong@064@ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>
<li>Hes Siemelin &lt;hes@064@izecom.com&gt; - fixIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
<li>Stefan Puiu &lt;stefanpuiuro@064@yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
<li>Kaiser Yang &lt;kaiseryang@064@yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>
<li>Jiri Urbanec &lt;jiri.urbanec@064@logicacmg.com&gt; - patch to fix defect in DERBMPSlot.equals().</li>
Justin Kolb &lt;jkolb@#064pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception. 

Ralf Hauser &lt;ralfhauser@#064gm.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@#064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini &lt;Klaus&@#064cqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo &lt;Olivier_Refalo@#064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola &lt;mariusz.bandola@#064cryptotech.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@#064transacttools.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;ian@#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

Jonathan Edwards &lt;s34gull@#064mac.com&gt; - initial support for reading multiple rings from a PGP key file.

Andrew Thornton &lt;andrew@#064caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl@#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers &lt;Antoon.Bosselaers@#064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.

Peter Sylvester &lt;Peter.Sylvester@#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmm@#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

François Staes &lt;fstaes@#064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdittmer@#064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto &lt;laperez@#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.

James Wright &lt;James_Wright@#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.

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.

Michael Hausler &lt;haeusler@#064ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai@#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;joseph@#064digiweb.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xyz@#064sagemencken.de&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen@#064vandevianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun@#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdudem@#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva@#064wedoconsulting.com&gt; - patch to fix overead issue in

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Open Source Used In MSX SD-WAN Service Pack 4.0.0  4376
BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alps@#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jgengelbach&#064;#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&#064;#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1&#064;#064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>
<li>Tom Cargill &lt;cargill&#064;#064profcon.com&gt; - spelling patch in provider.</li>
<li>Breitenstrom Christian &lt;c.Cbreitenstrom&#064;#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Zanotti Mirko &lt;zanotti&#064;#064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendoni &lt;nscendoni&#064;#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
<li>Ville Skyttä &lt;ville.skyttä&#064;#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@#064savvis.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; - "223" fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;amoliner@#064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;Carlos@#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi@#064jav.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hakala &lt;Joni.Hakala@#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, JettyAttrSyntax, 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@#064sir-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;ymk@#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>Nickolay Bolshakov &lt;tyrex@#064rekssoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer@#064tietoenator.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>

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner &lt;D.Eisner@#064seeburger.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.
Andrew Paterson &lt;andrew.paterson@burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.

Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev &lt;paulvav@064gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom@064mux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Łukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

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.

Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmlee@Crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;Brianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 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.

David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

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.

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>Jörg Eichhorn &lt;j.eichhorn@ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>

<li>Karsten Ohme &lt;widerstand@64r-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 typos 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>

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>Carlos Lozano Ruiz &lt;carlos@64radise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>

<li>John Alfred Prufrock &lt;j.a.prufrock@gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>

<li>Stefan Neusatz Guilhen &lt;sneusatz@64r google.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>

<li>Marzio Lo Giudice &lt;marzio.logiudice@64gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>

<li>Georg Lippold &lt;georg.lippold@64gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>

<li>Chris Viles &lt;chris_viles@64yahoo.com&lt;lt;gt;&gt; - fix to SignatureSubpacket critical bit setting.</li>

<li>Pasi Eronen &lt;pasi.eronen@64nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>


<li>Maria Ivanova &lt;maria.ivanova@64gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>

<li>Armin Hänzl &lt;berling@64student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>

<li>Marius Schilder &lt;mschilder@64google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>

<li>Xavier Le Vouch &lt;xavier@64britannysoftware.com&gt; - general code clean ups.</li>

<li>Erik Tews &lt;e_tews@64cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>

<li>Thomas Dixon &lt;reikomusha@64gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>

<li>Frank Cornelis &lt;info@64frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifier.</li>

<li>Rui Joaquim &lt;r.joaquim@64cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>

<li>David Stacey &lt;DStacey@64allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>

<li>Martijn Brinkers &lt;list@64mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
<li>Julius Davies <tt>&lt;juliusdavies#064gmail.com&gt;</tt>; additional modes and algorithm support in PEMReader</li>
<li>Matthias <tt>&lt;g#064tartner.de&gt;</tt>; GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&amp;amp;uuml;bler <tt>&lt;olga.Baehler&amp;064hjpp-consulting.com&gt;</tt>; initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo <tt>&lt;germano.rizzo#064gmail.com&gt;</tt>; initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&amp;uuml;ncia Mar&amp;iacute; <tt>&lt;numaa#064hotmail.com&gt;</tt>; patch for alternate data type recognization in CMSSignedDataParser.</li>
<li>Janis Schuller <tt>&lt;js#064tzi.de&gt;</tt>; addition of NotationData packets for OpenPGP.</li>
<li>Michael Sambianet <tt>&lt;miike#064sambianet.com&gt;</tt>; patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns <tt>&lt;mstjohns#064comcast.net&gt;</tt>; patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller <tt>&lt;ramon.keller#064gmx.ch&gt;</tt>; patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson <tt>&lt;mark#064nbr.com&gt;</tt>; correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov <tt>&lt;eugene_gff#064ukr.net&gt;</tt>; mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier <tt>&lt;juilenpasquier#064free.fr&gt;</tt>; additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp <tt>&lt;pknopp#064mtg.de&gt;</tt>; fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozdz <tt>&lt;gwozdiu#064rpg.pl&gt;</tt>; addition of getTsa(1), to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski <tt>&lt;bmalkow&amp;064igase.org&gt;</tt>; initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi <tt>&lt;tal.yacobi#064octavian-tech.com&gt;</tt>; fix for issue in OpenPGP examples [BJA-55].</li>
<li>Massimiliano Ziccardi <tt>&lt;massimiliano.ziccardi&amp;064gmail.comt&gt;</tt>; support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
<li>Andrey Pavlenko <tt>&lt;andrey.a.pavlenko&amp;064gmail.com&gt;</tt>; security manager patch for PKCS1Encoding property check.</li>
<li>J Ross Nicoll <tt>&lt;jrn#064jrn.me.uk&gt;</tt>; improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson <tt>&lt;mavricknz#064yahoo.com&gt;</tt>; patch to construtor for CRMF CertSequence.</li>
<li>Gabriele Contini <tt>&lt;gcontini#064hotpop.com&gt;</tt>; identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
<li>Roelof Naude <tt>&lt;roelof.naude#064epiuse.com&gt;</tt>; patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck <tt>&lt;peck#064signatureen.at&gt;</tt>; identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay <tt>&lt;lemaymd#064lemaymd.com&gt;</tt>; identified problem with EAX [BJA-93].</li>
<li>Alex Dupre <tt>&lt;ale#064FreeBSD.org&gt;</tt>; fix to use of Signature rather than SignatureSpi in provider [BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [BJA-102]</li>
<li>Michael Schoene <tt>&lt;michael&amp;064sigrid-und-michael.de&gt;</tt>; fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Ion Larra&amp;ntilde;aga <tt>&lt;ilarra#064s21sec.com&gt;</tt>; fix to default partial packet generation in
BCPGOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; port for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz@064fitpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCHostStrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23@064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques &lt;pmahenriques@064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer &lt;job@064kimmeringer.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>
<li>Richard Farr &lt;farr.se@064gmail.com&gt; initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani@064sogei.it&gt; patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r737lundgren@064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil@064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_at@064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hrawat@064yahoo.com&gt; fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;linde@064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [BMA-42].</li>
<li>Alex Artamonov &lt;alexart.home@064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mlyons@064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris_h_cole@yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Thomas Krivanek &lt;tom@064attack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kilandering &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith@064cbnc.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492)
Wayne Grant &lt;waynedgrant#064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis &lt;info#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittbener &lt;jan#064dittbener.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo#064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;ivo#064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nessche#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfilmalf#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa#064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo#064ununicaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten#064hjp-consulting.com&gt; fine tuning of code for DHPARAMS validation.

Shawn Willden &lt;swillden#064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev#064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking#064keynectis.com&gt; initial cut of EAC classes.

Tim Buku &lt;tbuku#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid#064ntngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.


Petar Petrov &lt;p.petrov#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr#064gmail.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#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth#064WPECGLtYbV1i8Rf6Y7Vzl2Lvd2EUVW9v3yNV31WROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AED.

Maarten Bodewes &lt;maarten.bodewes#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay &lt;pilf_b@#064g​yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;btcdc#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidkeacutete:n Borell &lt;samuel#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable 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/OpenSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad#064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;ti5555d#064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fattriedy#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes#064blueyonder.co.uk&gt; patches for supporting PGPPrivateKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio#064matics.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#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;lter &lt;eric.mueller#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86#064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb#064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;#064&gt; further work on completing gradle build.
<li>Waldemar Dick &lt;wdick@devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward@pdflabs.com&gt; code improvements to ASN1Boolean.</li>
<li>Alex Klyubin &lt;klyubin@64google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student@64gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter@iiaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller@64gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli &lt;ehli@64arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt &lt;Daniel.Heldt@64cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncycastle@64traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;maarts@64riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb@yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze &lt;marco@64nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer &lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.</li>
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt; tobias.wich@64ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehtens &lt; hauke@64hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Jonah Eklund &lt;johan@primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@64riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek@ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto@64halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot &lt;thomas.belot+BC@64gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce &lt;https://github.com/rdcroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Bjørn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Sch&uuml;rmann &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.</li>
<li>Michael &lt;MSKnete@64web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for
Tobias Wagner &lt;tobias.wagner@n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;sgiro@gmail.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

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@gmail.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;nfnik95@gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for varient keys.

Matthias Edelhoff &lt;Matthias.Edelhoff@cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat &lt;lukasz.deputat@gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig &lt;https://github.com/justinlwudwig&gt; Iterator fix for PGObjectFactory to handle stream packets at start of iterated data.

Andrzejacut &lt;berenguel@https://github.com/berenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaranowski &lt;https://github.com/slaweekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

William Glanton &lt;wglanton77@gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle &lt;naegele@#664grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazoki@wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch@#664veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAKeyValue.

Alexandr Krivoshta &lt;wipe@#664ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storozhs72@gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu#664samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis@#664mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for
McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Anders Schack-Mulligen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser,
BrokenKDF2BytesGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSSMT
implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light
weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015,
addition of fromExtensions() for CRLDistPoint.</li>
<li>Artem Storozhuk &lt;storoj72@#064gmail.com&gt; initial implementation of DSTU7564 (digest) and
DSTU7624 (cipher) and their associated modes.</li>
<li>Anders Glaser &lt;andreas.glaser@#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10
requests.</li>
<li>codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for
ECGOST-2012.</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>eksz2 &lt;https://github.com/eksz2&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@#064bitconsulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPNT bounds checking.</li>
<li>chris mccown &lt;0xchrismccown@#064gmail.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 PGPPUtil.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@#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in
<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>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>Vincent Bouckaert &lt;https://github.com/veebpee&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>Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Gabor Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>Moses Palm&lt;eacute;&gt;, TrueSec &lt;Henrik.Palmer&#064;truesec.se&gt; Additional improvements to constant time comparisons.</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Galis95 &lt;https://github.com/Galis95&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 EthereumISEEngine.</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>
<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumISEEngine.</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>
<li>Tobias Ospeelt &lt;https://github.com/tobias&#064;pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>

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org.apache.taglibs:taglibs-standard-spec
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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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1.561 randomfill 1.0.4

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1.563 dhcp 4.4.1 r0

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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 3a0982da308228d796df35f98d787c5c0f2bb5b6.

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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copy of the library already present on the user's computer system,
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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 3a0982da308228d796df35f98d787c5c8ff2bb5b6.

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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1.576 klibc 2.0.4 8ubuntu1.16.04.4

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1.577 asm-tree 5.1

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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[])@link
* 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@link). 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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 */
/**
* 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 ]).
* @throws IllegalStateException
* If a subclass calls this constructor.
* /

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* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources.jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources.jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources.jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources.jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources.jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources.jar/org/objectweb/asm/tree/analysis/Verifier.java
* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources.jar/org/objectweb/asm/tree/analysis/AnalyzerException.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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 */
/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #ClassNode(int)]
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 *
 * @throws IllegalStateException
 *          If a subclass calls this constructor.
 */
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/**
* Constructs a new [Textifier]. <i>Subclasses must not use this
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* 
* @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.
*/

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jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources-
jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
/* /opt/cola/permits/1111556635_1606933675.13/0/asm-tree-5-1-sources-jar/org/objectweb/asm/xml/SAXAdapter.java
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\texttt{analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java}
\texttt{analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java}
\texttt{analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java}
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\texttt{analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java}
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===========================================================================

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1.584 afero v1.0.5
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1.585 slf4j 1.7.30
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1.586 jetty-servlets 9.4.16.v20190411

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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

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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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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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"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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(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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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.

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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1.591 neo4j-cypher-ir 3.4.17

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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.
A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) 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 included in conveying the object code work.

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"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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1.603 boost 1.66.0

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1.605 zlib 1.2.3

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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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1.607 curator-framework 4.2.0
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1.608 grizzly-portunif 1.9.8

1.609 weld-api 3.1.SP2

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* /opt/cola/permits/1126029914_1615483544.0/0/slf4j-api-1-6-2-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
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 * Poly1305 message authentication code, designed by D. J. Bernstein.
 * <p>
 * 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.
 * <p>
 * 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).
 * @see Poly1305KeyGenerator
 */

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* /opt/ws_local/PERMITS_SQL/1077916992_1597181508.3/0/bcprov-ext-jdk15on-1-60-sources-
jar/org/bouncycastle/crypto/macs/Poly1305.java
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jar/org/bouncycastle/LICENSE.java
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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>
 * The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
 * section 1 in https://eprint.iacr.org/2014/795.pdf
 * <p>
1.632 hailocab-go-hostpool v0.0.0-20160125115350-e80d13ce29ed

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1.633 dh-python 2.20151103ubuntu1.2

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1.635 spring-cloud-starter-consul-discovery

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1.638 opensaml 2.6.1

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1.639 split-js 1.6.4

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1.640 brave-instrumentation-spring-rabbit

5.12.3

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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

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

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1.643 accessor-smart 1.2
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 * /

Found in path(s):
 */
 * /opt/cola/permits/1135872825_1613621009.27/0/accessors-smart-1-2-sources-4-jar/net/minidev/asm/ASMUtil.java
 * /opt/cola/permits/1135872825_1613621009.27/0/accessors-smart-1-2-sources-4-jar/net/minidev/asm/BeansAccess.java
 * /opt/cola/permits/1135872825_1613621009.27/0/accessors-smart-1-2-sources-4-jar/net/minidev/asm/Accessor.java
 * /opt/cola/permits/1135872825_1613621009.27/0/accessors-smart-1-2-sources-4-jar/net/minidev/asm/DynamicClassLoader.java

1.644 caffeine 2.6.2
1.645 waagent-py 2.1.6

1.645.1 Available under license:

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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

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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

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.

1.650 cxf-tools-wsdlto-databinding-jaxb 3.3.6
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1.652 slf4j-log4j 1.6.1

1.653 aop-alliance 5.2.7
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1.654 neo4j-cypher-runtime-util 3.5.14

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1.662 kerb-admin 1.1.0

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Gnomovision version 69, Copyright (C) year name of author
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Version 3, 29 June 2007

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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
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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.

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* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configuration/EnableWebSecurity.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configurers/SecurityContextConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configurers/AbstractConfigAttributeRequestMatcherRegist-
  ry.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/authentication/configurers/GlobalAuthenticationConfigurerAda-
  pter.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configurers/ChannelSecurityConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/ObjectPostProcessor.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configurers/ExpressionUrlAuthorizationConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/AbstractConfiguredSecurityBuilder.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configuration/AutowiredWebSecurityConfigurersIgnorePar-
  ents.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configuration/WebMvcSecurityConfiguration.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configurers/openid/OpenIDLoginConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-
  jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsAwareConfig-
  urer.java
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* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1.jar/org/springframework/security/config/annotation/web/configuration/WebMvcSecurityConfiguration.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1.jar/org/springframework/security/config/annotation/authentication/builders/AuthenticationManagerBuilder.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1.jar/org/springframework/security/config/annotation/authentication/configuration/AuthenticationConfiguration.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1.jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/UserDetailsManagerConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1.jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecurityAspectJAutoProxyRegistrar.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1.jar/org/springframework/security/config/annotation/web/configurers/AnonymousConfigurer.java
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* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/RequestCacheConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/annotation/web/builders/FilterComparator.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/PortMapperConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/FormLoginConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/annotation/web/builders/PermitAllSupport.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/AbstractAuthenticationFilterConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/annotation/web/builders/WebSecurity.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/CsrfConfigurer.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfiguration.java
* /opt/cola/permits/1111409578_1606911289.52/0/spring-security-config-4-2-2-release-sources-1-jar/org/springframework/security/config/method/GlobalMethodSecurityBeanDefinitionParser.java
1.688 wildfly-elytron-jacc 1.11.4.Final
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jar/org/wildfly/security/authz/jacc/ElytronMessages.java

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* /opt/ws_local/PERMITS_SQL/1094801950_1601321240.9/0/wildfly-elytron-jacc-1-11-4-final-sources-
jar/META-INF/maven/org.wildfly.security/wildfly-elytron-jacc/pom.xml
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jar/org/wildfly/security/authz/jacc/SecurityIdentityHandler.java
* /opt/ws_local/PERMITS_SQL/1094801950_1601321240.9/0/wildfly-elytron-jacc-1-11-4-final-sources-
1.689 classgraph 4.8.69

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1.690 brave-instrumentation-spring-webmvc

5.12.3

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1.691 angular-input-match 1.4.0
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/*! 
 * angular-input-match
 * Checks if one input matches another
 * @version v1.4.0
 * @link https://github.com/TheSharpieOne/angular-input-match
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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}))
        .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'));

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* /opt/ws_local/PERMITS_SQL/1077909535_1597181426.43/0/angular-validation-match-1-zip/angular-validation-match/gulpfile.js

1.692 springfox-spring-webmvc 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-
jar/springfox/documentation/spring/web/WebMvcNameValueExpressionWrapper.java
* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-
jar/springfox/documentation/spring/web/WebMvcPatternsRequestConditionWrapper.java
* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-
jar/springfox/documentation/spring/web/WebMvcRequestMappingInfoWrapper.java

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jar/springfox/documentation/spring/web/WebMvcObjectMapperConfigurer.java

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* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3.0.0-sources-jar/springfox/documentation/spring/web/WebMvcRequestHandler.java
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import: ../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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1.716 jackson-databind 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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1.720 open-ws 1.5.6

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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
 *
 * @return true if the encoder provides end-to-end message confidentiality, false if not
 *
 * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
 * ability to provide message confidentiality.
 */

Found in path(s):
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/message/encoder/MessageEncoder.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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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/transport/Transport.java
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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/schema/oasis-200401-wss-wssecurity-secext-1.0.xsd

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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/Version.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wsaddressing/impl/MessageIDMarshaller.java
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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/soap/soap11/impl/BodyMarshaller.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wstrust/impl/AllowPostdatingUnmarshaller.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/util/resource/FileBackedHttpResource.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wspolicy/impl/ExactlyOneBuilder.java
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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wsaddressing/impl/ProblemIRIImpl.java
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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/security/impl/NonceUnmarshaller.java
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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/security/impl/UsernameUnmarshaller.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/security/impl/UsernameTokenBuilder.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/security/impl/AttributedDateTimeMarshaller.java
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jar/org/opensaml/ws/wsaddressing/impl/ToMarshaller.java
* /opt/cola/permits/1109021854_1610153068.13/0/opensaml-1-5-6-sources-jar/org/opensaml/ws/wsaddressing/impl/AttributedURIImpl.java
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* /opt/cola/permits/1109021854_1610153068.13/0/opensaml-1-5-6-sources-jar/org/opensaml/ws/wstrust/impl/TokenTypeBuilder.java
* /opt/cola/permits/1109021854_1610153068.13/0/opensaml-1-5-6-sources-jar/org/opensaml/ws/wstrust/impl/ChallengeImpl.java
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* /opt/cola/permits/1109021854_1610153068.13/0/opensaml-1-5-6-sources-jar/org/opensaml/ws/wsaddressing/WSAddressingConstants.java
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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-
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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-
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* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wssecurity/impl/PasswordUnmarshaller.java
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The security token profiles currently supported are:

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- [Web Services Security: SAML Token Profile 1.1](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-SAMLTokenProfile.pdf)
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Rev. April, 2006

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1.740 wildfly-process-controller 11.1.1.Final

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1.742 commons-math 3.6.1

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1.753 angular-bootstrap-datetimepicker 0.3.13

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* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQPropertyConversionException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQExceptionType.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQObjectClosedException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQInternalErrorException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQAddressExistsException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQInvalidTransientQueueUseException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQPropertyConversionException.java
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* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQObjectClosedException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQInternalErrorException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQAddressExistsException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQInvalidTransientQueueUseException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQPropertyConversionException.java
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* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/api/core/HornetQObjectClosedException.java
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jar/org/hornetq/api/core/HornetQAddressFullException.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1-
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jar/org/hornetq/utils/ByteUtil.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1-
jar/org/hornetq/api/core/HornetQInvalidFilterExpressionException.java

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 */
/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 * <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
* 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.</p>
* &lt;p&gt;The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:&lt;/p&gt;
* &lt;p&gt;
* &lt;code&gt;String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES
* );&lt;/code&gt;
* &lt;/p&gt;
* &lt;p&gt;to compress the data before encoding it and then making the output have no newline characters.&lt;/p&gt;
* &lt;p&gt;
* Change Log:
* &lt;/p&gt;
* &lt;ul&gt;
* &lt;li&gt;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.&lt;/li&gt;
* &lt;li&gt;v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~&lt; 40 bytes).&lt;/li&gt;
* &lt;li&gt;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:
* &lt;/ol&gt;
* &lt;li&gt;The default is RFC3548 format.&lt;/li&gt;
* &lt;li&gt;Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* &lt;p&gt;http://www.faqs.org/rfcs/rfc3548.html&lt;/li&gt;
* &lt;li&gt;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&lt;/li&gt;
* &lt;/ol&gt;
* &lt;li&gt;Special thanks to Jim Kellerman at &lt;a href="http://www.powerset.com/"&gt;http://www.powerset.com/</a&gt;
* for contributing the new Base64 dialects.</li&gt;</li>
* &lt;li&gt;
* &lt;li&gt;v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.&lt;/li&gt;
* &lt;li&gt;v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).&lt;/li&gt;
* &lt;li&gt;v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.&lt;/li&gt;
* &lt;/li&gt;
* &lt;li&gt;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
* &lt;tt&gt;int&lt;/tt&gt; s that you "OR" together).&lt;/li&gt;
* &lt;li&gt;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>v1.1.5 - 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.</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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* plenty of well-wishing instead!
* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements.
* </ul>
* @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
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1.763 commons-validator 1.4.0

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1.764 netty-buffer 4.1.48.Final

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* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4.1-48-final-sources-1.jar/io/netty/buffer/PoolChunkMetric.java
* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4.1-48-final-sources-1.jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4.1-48-final-sources-1.jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java

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  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/reactor/function/Consumer6.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/function/Function7.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/math/MonoAverageFloat.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/math/MonoSumLong.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/swing/SwtScheduler.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/math/MonoFromFluxOperator.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/reactor/function/Consumer3.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/reactor/function/Predicate6.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/reactor/math/MonoSumInt.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/reactor/math/MathSubscriber.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
jar/reactor/function/Consumer8.java
  */
  /opt/ws_local/PERMITS_SQL/1077482473_1596857753.28/0/reactor-extra-3-3-3-release-sources-
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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/  (for prereleases)
ftp://sourceware.org/pub/newlib/  (for newlib)
git://git.savannah.gnu.org/gm2.git  (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language  Compiler package  Library package  Documentation
---------------------------------------------------------------------------
Ada        gnat-10          libgnat-10          gnat-10-doc
BRIG       gccbrig-10       libhsail-rt0
C          gcc-10                              gcc-10-doc
C++        g++-10           libstdc++6         libstdc++6-10-doc
D          gdc-10
Fortran 95  gfortran-10      libgfortran5       gfortran-10-doc
Go          gccgo-10         libgo0
Objective C gobcj-10         libobjc4
Objective C++ gobjc++-10
Modula-2   gm2-10           libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language  Sources  Development  Debugging  Position-Independent
---------------------------------------------------------------------------
C++        libstdc++6-10-dbg  libstdc++6-10-pic
D          libphobos-10-dev

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4    GCC intrinsics (platform-dependent)
gcc-10-base                 Base files common to all compilers
gcc-10-soft-float        Software floating point (ARM only)
gcc-10-source            The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10  GNAT version library

C:
cpp-10, cpp-10-doc        GNU C Preprocessor
libssp0-dev, libssp0       GCC stack smashing protection library
libquadmath0                Math routines for the __float128 type
fixincludes                 Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libstdc++-v3
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- Various config files in gcc/config/ used in runtime libraries.
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
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The Phobos standard runtime library:
- d/phobos/*

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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 lead.

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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_no_validate_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/ng_control.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/abstract_control_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/select_multiple_control_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/control_container.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/index.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/template_driven_errors.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/range_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_control.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/form_builder.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/ng_module.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/non_angular_modules.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/async_iterator.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/async_iterator.js
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Promise.resolve(v).then(function(v) { resolve({ value: v, done: d }); }, reject);

function __makeTemplateObject(cooked, raw) {
    if (Object.defineProperty) { Object.defineProperty(cooked, 'raw', { value: raw }); } else { cooked.raw = raw; }
    return cooked;
}

function __importStar(mod) {
    if (mod && mod.__esModule) return mod;
    var result = {}
    if (mod != null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];
    result.default = mod;
    return result;
}

function __importDefault(mod) {
    return (mod && mod.__esModule) ? mod : { default: mod };
}

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 */

/**
 * Used to provide a `ControlValueAccessor` for form controls.
 * See `DefaultValueAccessor` for how to implement one.
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 */

var NG_VALUE_ACCESSOR = new core.InjectionToken('NgValueAccessor');

var CHECKBOX_VALUE_ACCESSOR = { provide: NG_VALUE_ACCESSOR, useExisting: core.forwardRef(function () { return CheckboxControlValueAccessor; }), multi: true, useClass: core.Directive({
  selector: 'input[type=checkbox][formControlName], input[type=checkbox][formControl], input[type=checkbox][ngModel]',
  host: {
    '(change)': 'onChange($event.target.checked)',
    '(blur)': 'onTouched()' 
  },
  providers: [CHECKBOX_VALUE_ACCESSOR]
}),

var DEFAULT_VALUE_ACCESSOR = { provide: NG_VALUE_ACCESSOR, useExisting: core.forwardRef(function () { return DefaultValueAccessor; }), multi: true, useClass: core.Directive({
  selector: 'input[type=checkbox][formControl][name]',
  host: {
    '(change)': 'onChange($event.target.checked)',
    '(blur)': 'onTouched()' 
  },
  providers: [DEFAULT_VALUE_ACCESSOR]
})

function __isAndroid() {
    var userAgent = common.getDOM() ? navigator.userAgent : null;
    if (userAgent && userAgent.toLowerCase().indexOf('android') !== -1) return true;
    return false;
}

function CheckboxControlValueAccessor(_renderer, _elementRef) {
    this._renderer = _renderer;
    this._elementRef = _elementRef;

    this.onChange = function (_) { };
    this.onTouched = function () { };

    this.writeValue = function (value) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
    };

    this.registerOnChange = function (fn) {
        this.onChange = fn;
    };

    this.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };

    this.setDisabledState = function (isDisabled) {
        this._renderer.setDisabledState(isDisabled);
    };

    this.onBlur = function () { this.onTouched(); };
}

CheckboxControlValueAccessor = __decorate([core.Directive({
  selector: 'input[type=checkbox][formControl][name]',
  host: {
    '(change)': 'onChange($event.target.checked)',
    '(blur)': 'onTouched()' 
  },
  providers: [CHECKBOX_VALUE_ACCESSOR]
})], CheckboxControlValueAccessor);

CheckboxControlValueAccessor = __decorate([core.Directive({
  selector: 'input[type=checkbox][formControl][name]',
  host: {
    '(change)': 'onChange($event.target.checked)',
    '(blur)': 'onTouched()' 
  },
  providers: [DEFAULT_VALUE_ACCESSOR]
})], CheckboxControlValueAccessor);

return CheckboxControlValueAccessor;

var userAgent = common.getDOM() ? navigator.userAgent : null;
if (userAgent && userAgent.toLowerCase().indexOf('android') !== -1) return true;
return false;
common.getDOM().getUserAgent() : '';\n
return /android (\\d+)/.test(userAgent.toLowerCase());\n }\n /**\n
* @description\n * Provide this token to control if form directives buffer IME input until\n * the
\"compositionend\" event occurs.\n * @publicApi\n */\n var COMPOSITION_BUFFER_MODE = new
core.InjectionToken('CompositionEventMode');\n /**\n * @description\n * The default
`ControlValueAccessor` for writing a value and listening to changes on input\n * elements. The accessor is used
by the `FormControlDirective`, `FormControlName`, and\n * `NgModel` directives.\n *\n * @usageNotes\n
*\n * ### Using the default value accessor\n *\n * The following example shows how to use an input
element that activates the default value accessor\n * (in this case, a text field).\n *\n * ```ts\n * const
firstNameControl = new FormControl();\n * ```\n *\n * ```\n * <input type=\"text\"
[formControl]=\"firstNameControl\">\n * ```\n *\n * @ngModule ReactiveFormsModule\n * @ngModule
FormsModule\n * @publicApi\n */\n var DefaultValueAccessor = /** @class */ (function () {\n
function
DefaultValueAccessor(_renderer, _elementRef, _compositionMode) {\n
this._renderer = _renderer;\n
this._elementRef = _elementRef;\n
this._compositionMode = _compositionMode;\n
/**\n
*
@description\n
* The registered callback function called when an input event occurs on the input element.\n
*/\n
this.onChange = function (_) { };\n
/**\n
* @description\n
* The registered
callback function called when a blur event occurs on the input element.\n
*/\n
this.onTouched =
function () { };\n
/** Whether the user is creating a composition string (IME events). */\n
this._composing = false;\n
if (this._compositionMode == null) {\n
this._compositionMode =
!_isAndroid();\n
}\n
}\n
/**\n
* Sets the \"value\" property on the input element.\n
*\n
* @param value The checked value\n
*/\n
DefaultValueAccessor.prototype.writeValue = function (value)
{\n
var normalizedValue = value == null ? '' : value;\n
this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n
};\n
/**\n
*
@description\n
* Registers a function called when the control value changes.\n
*\n
* @param fn The
callback function\n
*/\n
DefaultValueAccessor.prototype.registerOnChange = function (fn) {
this.onChange = fn; };\n
/**\n
* @description\n
* Registers a function called when the control is
touched.\n
*\n
* @param fn The callback function\n
*/\n
DefaultValueAccessor.prototype.registerOnTouched = function (fn) { this.onTouched = fn; };\n
/**\n
*
Sets the \"disabled\" property on the input element.\n
*\n
* @param isDisabled The disabled value\n
*/\n
DefaultValueAccessor.prototype.setDisabledState = function (isDisabled) {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n
};\n
/** @internal */\n
DefaultValueAccessor.prototype._handleInput = function (value) {\n
if (!this._compositionMode ||
(this._compositionMode && !this._composing)) {\n
this.onChange(value);\n
}\n
};\n
/**
@internal */\n
DefaultValueAccessor.prototype._compositionStart = function () { this._composing = true; };\n
/** @internal */\n
DefaultValueAccessor.prototype._compositionEnd = function (value) {\n
this._composing = false;\n
this._compositionMode && this.onChange(value);\n
};\n
DefaultValueAccessor = __decorate([\n
core.Directive({\n
selector:
'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formContr
ol],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]',\n
// TODO: vsavkin replace the above selector with the one below it once\n
//
https://github.com/angular/angular/issues/3011 is implemented\n
// selector:
'[ngModel],[formControl],[formControlName]',\n
host: {\n
'(input)':
'$any(this)._handleInput($event.target.value)',\n
'(blur)': 'onTouched()',\n
'(compositionstart)': '$any(this)._compositionStart()',\n
'(compositionend)':
'$any(this)._compositionEnd($event.target.value)'\n
},\n
providers:
[DEFAULT_VALUE_ACCESSOR]\n
}),\n
__param(2, core.Optional()), __param(2,
core.Inject(COMPOSITION_BUFFER_MODE)),\n
__metadata(\"design:paramtypes\", [core.Renderer2,
core.ElementRef, Boolean])\n
], DefaultValueAccessor);\n
return DefaultValueAccessor;\n }());\n\n
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object \n        */
        function AbstractControlDirective() { /* */
        }
    }

    Object.defineProperty(AbstractControlDirective.prototype, \"value\", { /* */
        get: function () { return this.control ? this.control.value : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"touched\", { /* */
        get: function () { return this.control ? this.control.touched : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"dirty\", { /* */
        get: function () { return this.control ? this.control.dirty : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"valid\", { /* */
        get: function () { return this.control ? this.control.valid : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"errors\", { /* */
        get: function () { return this.control ? this.control.errors : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"status\", { /* */
        get: function () { return this.control ? this.control.status : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"pending\", { /* */
        get: function () { return this.control ? this.control.pending : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"enabled\", { /* */
        get: function () { return this.control ? this.control.enabled : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"pristine\", { /* */
        get: function () { return this.control ? this.control.pristine : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"disabled\", { /* */
        get: function () { return this.control ? this.control.disabled : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"invalid\", { /* */
        get: function () { return this.control ? this.control.invalid : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"valid\", { /* */
        get: function () { return this.control ? this.control.valid : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"invalid\", { /* */
        get: function () { return this.control ? this.control.invalid : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"dirty\", { /* */
        get: function () { return this.control ? this.control.dirty : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"errors\", { /* */
        get: function () { return this.control ? this.control.errors : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"status\", { /* */
        get: function () { return this.control ? this.control.status : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"pending\", { /* */
        get: function () { return this.control ? this.control.pending : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

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        get: function () { return this.control ? this.control.enabled : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

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        get: function () { return this.control ? this.control.pristine : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

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        get: function () { return this.control ? this.control.disabled : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

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        get: function () { return this.control ? this.control.invalid : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"valid\", { /* */
        get: function () { return this.control ? this.control.valid : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"invalid\", { /* */
        get: function () { return this.control ? this.control.invalid : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"dirty\", { /* */
        get: function () { return this.control ? this.control.dirty : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"errors\", { /* */
        get: function () { return this.control ? this.control.errors : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"status\", { /* */
        get: function () { return this.control ? this.control.status : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });

    Object.defineProperty(AbstractControlDirective.prototype, \"pending\", { /* */
        get: function () { return this.control ? this.control.pending : null; }, /* */
        enumerable: true, /* */
        configurable: true /* */
    });
@description
* Reports whether the control is untouched, meaning that the user has not yet triggered
* a 'blur' event on it. If the control is not present, null is returned.

get: function () {
  return this.control ? this.control.untouched : null;
},
enumerable: true,
configurable: true
});

AbstractControlDirective.prototype.untouched = function () {
  return this.control ? this.control.untouched : null;
},
enumerable: true,
configurable: true
});

Object.defineProperty(AbstractControlDirective.prototype, "statusChanges", {
  /**
   * Returns a multicasting observable that emits a validation status whenever it is calculated for the control. If the control is not present, null is returned.
   */
  get: function () {
    return this.control ? this.control.statusChanges : null;
  },
  enumerable: true,
  configurable: true
});

Object.defineProperty(AbstractControlDirective.prototype, "valueChanges", {
  /**
   * Returns a multicasting observable of value changes for the control that emits every time the control changes in the UI or programmatically.
   */
  get: function () {
    return this.control ? this.control.valueChanges : null;
  },
  enumerable: true,
  configurable: true
});

Object.defineProperty(Property(ConcreteControlDirective.prototype.
  "statusChanges", {
  /**
   * Returns a multicasting observable of value changes for the control that emits every time the
   * value of the control changes in the UI or programmatically.
   */
  get: function () {
    return this.control ? this.control.valueChanges : null;
  },
  enumerable: true,
  configurable: true
});

Object.defineProperty(Property(ConcreteControlDirective.prototype.
  "valueChanges", {
  /**
   * Returns a multicasting observable of value changes for the control that emits every time the
   * value of the control changes in the UI or programmatically.
   */
  get: function () {
    return this.control ? this.control.valueChanges : null;
  },
  enumerable: true,
  configurable: true
});

Object.defineProperty(Property(ConcreteControlDirective.prototype.
  "statusChanges", {
  /**
   * Returns a multicasting observable that emits a validation status whenever it is calculated for the control. If the control is not present, null is returned.
   */
  get: function () {
    return this.control ? this.control.statusChanges : null;
  },
  enumerable: true,
  configurable: true
});

Object.defineProperty(Property(ConcreteControlDirective.prototype.
  "valueChanges", {
  /**
   * Returns a multicasting observable of value changes for the control that emits every time the
   * value of the control changes in the UI or programmatically.
   */
  get: function () {
    return this.control ? this.control.valueChanges : null;
  },
  enumerable: true,
  configurable: true
});
### CSS classes applied

The following classes are automatically applied to Angular form controls that sets CSS classes based on control status.

- `ngClassInvalid`
- `ngClassPristine`
- `ngClassDirty`
- `ngClassTouched`
- `ngClassUntouched`
- `ngClassPending`
- `ngClassValid`

```javascript
Object.defineProperty(AbstractControlStatus.prototype, "ngClassInvalid", {
    get: function () { return this._cd.control ? this._cd.control.invalid : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassPending", {
    get: function () { return this._cd.control ? this._cd.control.pending : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassInvalid", {
    get: function () { return this._cd.control ? this._cd.control.invalid : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassValid", {
    get: function () { return this._cd.control ? this._cd.control.valid : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassPending", {
    get: function () { return this._cd.control ? this._cd.control.pending : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassPristine", {
    get: function () { return this._cd.control ? this._cd.control.pristine : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassTouched", {
    get: function () { return this._cd.control ? this._cd.control.touched : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassUntouched", {
    get: function () { return this._cd.control ? this._cd.control.untouched : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassDirty", {
    get: function () { return this._cd.control ? this._cd.control.dirty : false; },
    enumerable: true,
    configurable: true
});
```

### The registered synchronous validators for the control

- `validator`

```javascript
Object.defineProperty(NgControl.prototype, "validator", {
    /**
     * @description
     * The registered synchronous validator function for the control
     *
     * @throws An exception that this method is not implemented
     */
    get: function () { return this._rawValidators; },
    enumerable: true,
    configurable: true
});
```

### The registered asynchronous validators for the control

- `asyncValidator`

```javascript
Object.defineProperty(NgControl.prototype, "asyncValidator", {
    /**
     * @description
     * The registered async validator function for the control
     *
     * @throws An exception that this method is not implemented
     */
    get: function () { return unimplemented(); },
    enumerable: true,
    configurable: true
});
```

### The uncomposed array of synchronous validators for the control

- `_this._rawValidators = [];

```javascript
Object.defineProperty(NgControl.prototype, "validator", {
    /**
     * @description
     * The uncomposed array of synchronous validators for the control
     *
     * @internal
     */
    get: function () { return this._rawAsyncValidators; },
    enumerable: true,
    configurable: true
});
```

### The path to this group

- `_this.path = null;`

```javascript
Object.defineProperty(ControlContainer.prototype, "path", {
    get: function () { return this._path; },
    enumerable: true,
    configurable: true
});
```
properties become true:\n *\n * * ng-valid\n * * ng-invalid\n * * ng-pending\n * * ng-pristine\n * *
ng-dirty\n * * ng-untouched\n * * ng-touched\n *\n * @ngModule ReactiveFormsModule\n *
@ngModule FormsModule\n * @publicApi\n */\n var NgControlStatus = /** @class */ (function (_super)
{\n
__extends(NgControlStatus, _super);\n
function NgControlStatus(cd) {\n
return _super.call(this,
cd) || this;\n
}\n
NgControlStatus = __decorate([\n
core.Directive({ selector:
'[formControlName],[ngModel],[formControl]', host: ngControlStatusHost }),\n
__param(0, core.Self()),\n
__metadata(\"design:paramtypes\", [NgControl])\n
], NgControlStatus);\n
return NgControlStatus;\n
}(AbstractControlStatus));\n /**\n * @description\n * Directive automatically applied to Angular form
groups that sets CSS classes\n * based on control status (valid/invalid/dirty/etc).\n *\n * @see
`NgControlStatus`\n *\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n *
@publicApi\n */\n var NgControlStatusGroup = /** @class */ (function (_super) {\n
__extends(NgControlStatusGroup, _super);\n
function NgControlStatusGroup(cd) {\n
return
_super.call(this, cd) || this;\n
}\n
NgControlStatusGroup = __decorate([\n
core.Directive({\n
selector: '[formGroupName],[formArrayName],[ngModelGroup],[formGroup],form:not([ngNoForm]),[ngForm]',\n
host: ngControlStatusHost\n
}),\n
__param(0, core.Self()),\n
__metadata(\"design:paramtypes\", [ControlContainer])\n
], NgControlStatusGroup);\n
return
NgControlStatusGroup;\n }(AbstractControlStatus));\n\n /**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n */\n function isEmptyInputValue(value) {\n
// we don't
check for string here so it also works with arrays\n
return value == null || value.length === 0;\n }\n /**\n
* @description\n * An `InjectionToken` for registering additional synchronous validators used with
`AbstractControl`s.\n *\n * @see `NG_ASYNC_VALIDATORS`\n *\n * @usageNotes\n *\n * ###
Providing a custom validator\n *\n * The following example registers a custom validator directive. Adding the
validator to the\n * existing collection of validators requires the `multi: true` option.\n *\n * ```typescript\n
* @Directive({\n * selector: '[customValidator]',\n * providers: [{provide: NG_VALIDATORS,
useExisting: CustomValidatorDirective, multi: true}]\n * })\n * class CustomValidatorDirective implements
Validator {\n * validate(control: AbstractControl): ValidationErrors | null {\n * return { 'custom': true };\n
* }\n * }\n * ```\n *\n * @publicApi\n */\n var NG_VALIDATORS = new
core.InjectionToken('NgValidators');\n /**\n * @description\n * An `InjectionToken` for registering
additional asynchronous validators used with `AbstractControl`s.\n *\n * @see `NG_VALIDATORS`\n *\n
* @publicApi\n */\n var NG_ASYNC_VALIDATORS = new core.InjectionToken('NgAsyncValidators');\n
/**\n * A regular expression that matches valid e-mail addresses.\n *\n * At a high level, this regexp matches
e-mail addresses of the format `local-part@tld`, where:\n * - `local-part` consists of one or more of the allowed
characters (alphanumeric and some\n * punctuation symbols).\n * - `local-part` cannot begin or end with a
period (`.`).\n * - `local-part` cannot be longer than 64 characters.\n * - `tld` consists of one or more `labels`
separated by periods (`.`). For example `localhost` or\n * `foo.com`.\n * - A `label` consists of one or more of
the allowed characters (alphanumeric, dashes (`-`) and\n * periods (`.`)).\n * - A `label` cannot begin or end
with a dash (`-`) or a period (`.`).\n * - A `label` cannot be longer than 63 characters.\n * - The whole address
cannot be longer than 254 characters.\n *\n * ## Implementation background\n *\n * This regexp was
ported over from AngularJS (see there for git history):\n *
https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27\n * It is based on the\n *
[WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with\n * some
enhancements to incorporate more RFC rules (such as rules related to domain names and the\n * lengths of
different parts of the address). The main differences from the WHATWG version are:\n * - Disallow `local-part`
to begin or end with a period (`.`).\n * - Disallow `local-part` length to exceed 64 characters.\n * - Disallow
total address length to exceed 254 characters.\n *\n * See [this
commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.\n */\n var
EMAIL_REGEXP = /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+(?:\\.[a-zA-Z0-

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**Enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of specification)**

* [valid-email-address](https://html.spec.whatwg.org/multipage/input.html)


**Validators.requiredTrue = function (control) {
            return control.value === true ? null : { 'required': true };

**Validators.required = function (control) {
            return isEmptyInputValue(control.value) ? { 'required': true } : null;

**Validators.min = function (min) {
            return function (control) {
                if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {
                    return null;
                }
                var value = parseFloat(control.value);
                // Controls with NaN values after parsing should be treated as not having a
                // minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min
                return !isNaN(value) && value < min ? { 'min': { 'min': min, 'actual': control.value } } : null;

**Validators.max = function (max) {
            return function (control) {
                if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {
                    return null;
                }
                var value = parseFloat(control.value);
                // Controls with NaN values after parsing should be treated as not having a
                // maximum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max
                return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;

**Validators() {
        }
        /**
         * @description
         * Validator that requires the control's value pass an email validation check, otherwise 'null'.
         * @returns A validator function that returns an error map with the 'required' property if the validation check fails, otherwise 'null'.
         * @see `updateValueAndValidity()`
         */
        Validators.requiredTrue = function (control) {
            return control.value === true ? null : { 'required': true };

**Validators.required = function (control) {
            return isEmptyInputValue(control.value) ? { 'required': true } : null;

**Validators.min = function (min) {
            return function (control) {
                if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {
                    return null;
                }
                var value = parseFloat(control.value);
                // Controls with NaN values after parsing should be treated as not having a
                // minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min
                return !isNaN(value) && value < min ? { 'min': { 'min': min, 'actual': control.value } } : null;

**Validators.max = function (max) {
            return function (control) {
                if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {
                    return null;
                }
                var value = parseFloat(control.value);
                // Controls with NaN values after parsing should be treated as not having a
                // maximum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max
                return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
```typescript
// Define a function that validates email patterns

Validators.email = function (control) {
    if (isEmptyInputValue(control.value)) {
        return null; // don't validate empty values to allow optional controls
    }
    return EMAIL_REGEXP.test(control.value) ? null : { 'email': true };
}
```

- Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.
- If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.

```typescript
* @usageNotes
* @description
* Validator that requires the control's value to match a regex pattern. This validator is also provided by default if you use the
* the HTML5 `minlength` attribute.
```

```typescript
Validators.minLength = function (minLength) {
    return function (control) {
        if (isEmptyInputValue(control.value)) {
            return null; // don't validate empty values to allow optional controls
        }
        return control.value ? control.value.length : 0; // return length < minLength ?
            'requiredLength': minLength, 'actualLength': length } } : null;
    return null; // don't validate empty values to allow optional controls
}
```

- Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.
- Disallow `local-part` (the part before the `@` symbol) to be longer than 64 characters.
- Disallow `local-part` to be longer than 254 characters.

```typescript
Validators.maxLength = function (maxLength) {
    return function (control) {
        return control.value ? control.value.length : 0; // return length > maxLength ?
            'requiredLength': maxLength, 'actualLength': length } } :
```
new RegExp(regexStr));

} else {
    regexStr = pattern.toString();
    regex = pattern; // don't validate empty values to allow optional controls
}

var value = control.value; return regex.test(value) ? null :

{ 'pattern': ' [requiredPattern: regexStr,' 'actualValue': value ] }; return function

/**
 * @description
 * The registered callback function called when a change or input event
 * occurs on the input element.
 */

this.onChange = this._elementRef = _elementRef;

/**
 * @description
 * The registered callback function called when a change or input event
 * occurs on the input element.
 */

this.onChange = this._elementRef = _elementRef;

```ts
const totalCountControl = new FormControl();
```

```ts
this.onChange = this._elementRef = _elementRef;
```
blur event occurs on the input element.

Sets the 'value' property on the input element.

```
NumberValueAccessor.prototype.writeValue = function (value) {
    // The value needs to be normalized for IE9, otherwise it is set to 'null' when null
    var normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
}
```

```
NumberValueAccessor.prototype.registerOnChange = function (fn) {
    this.onChange = function (value) { fn(value == '' ? null : parseFloat(value)); };
}
```

```
NumberValueAccessor.prototype.registerOnTouched = function (fn) {
    this.onTouched = fn;
}
```

```
NumberValueAccessor.prototype.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

```
RadioValueAccessor = /** @class */ (function () {
    function RadioValueAccessor(_renderer,
        _elementRef) {
    }
    /**
     * @description
     * Registers a function called when the control value changes.
     * @param fn The callback function
     * @param isDisabled The disabled value
     */
    RadioValueAccessor.prototype.onChange = function (fn) {
        fn.value == '' ? null : parseFloat(value);
    };
    /**
     * @description
     * Registers a function called when the control is touched.
     * @param fn The callback function
     */
    RadioValueAccessor.prototype.onTouched = function (fn) {
        (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        }
    }
    /**
     * @description
     * Selects a radio button. For internal use only.
     */
    RadioValueAccessor.prototype.select = function (accessor) {
        var _this = this;
        this._accessors.forEach(function (c) {
            if (_this._isSameGroup(c, accessor) && c[1] !== accessor) {
                c[1].fireUncheck(accessor.value);
            }
        });
    }
    RadioValueAccessor.prototype._isSameGroup = function (controlPair, accessor) {
        if (!controlPair[0].control)
            return false;
        return controlPair[0]._parent === accessor._parent &&
            controlPair[1].name === accessor.name;
    }
    RadioControlRegistry = __decorate([], RadioControlRegistry);
    return
}
```

```
RadioControlRegistry.prototype.isSameGroup = function (controlPair, accessor) {
    if (!controlPair[0].control)
        return false;
    return controlPair[0].parent ===
        accessor._parent &
        accessor.name;  
}
```

```
RadioControlRegistry = this._decorate([], Injectable(), RadioControlRegistry);
```

```
RadioControlRegistry.prototype.select = function (controlPair) {
    var _this = this;
    this._accessors.forEach(function (c) {
        if (_this._isSameGroup(c, accessor) &
            c[1] !== accessor) {
            c[1].fireUncheck(accessor.value);
        }
    });
}
```

```
RadioControlRegistry.prototype._isSameGroup = function (controlPair, accessor) {
    if (!controlPair[0].control)
        return false;
    return controlPair[0].parent ===
        accessor._parent &
        accessor.name;  
}
```

```
RadioControlRegistry = this._decorate([], Injectable(), RadioControlRegistry);
```

```
RadioControlRegistry.prototype.select = function (controlPair) {
    var _this = this;
    this._accessors.forEach(function (c) {
        if (_this._isSameGroup(c, accessor) &
            c[1] !== accessor) {
            c[1].fireUncheck(accessor.value);
        }
    });
}
```

```
RadioControlRegistry.prototype._isSameGroup = function (controlPair, accessor) {
    if (!controlPair[0].control)
        return false;
    return controlPair[0].parent ===
        accessor._parent &
        accessor.name;  
}
```

```
RadioControlRegistry = this._decorate([], Injectable(), RadioControlRegistry);
```

```
RadioControlRegistry.prototype.select = function (controlPair) {
    var _this = this;
    this._accessors.forEach(function (c) {
        if (_this._isSameGroup(c, accessor) &
            c[1] !== accessor) {
            c[1].fireUncheck(accessor.value);
        }
    });
}
```

```
RadioControlRegistry.prototype._isSameGroup = function (controlPair, accessor) {
    if (!controlPair[0].control)
        return false;
    return controlPair[0].parent ===
        accessor._parent &
        accessor.name;  
}
```

```
RadioControlRegistry = this._decorate([], Injectable(), RadioControlRegistry);
```

```
RadioControlRegistry.prototype.select = function (controlPair) {
    var _this = this;
    this._accessors.forEach(function (c) {
        if (_this._isSameGroup(c, accessor) &
            c[1] !== accessor) {
            c[1].fireUncheck(accessor.value);
        }
    });
}
```
The registered callback function called when a change event occurs on the input element.

*/*/n
this.onChange = function () { };
*/n
/**
 * @description
 * The registered callback function called when a blur event occurs on the input element.
 */
this.onTouched = function () { }

/**
 * @description
 * A lifecycle method called when the directive is initialized. For internal use only.
 */
RadioControlValueAccessor.prototype.ngOnInit = function () {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
}

/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
RadioControlValueAccessor.prototype.ngOnDestroy = function () {
    this._registry.remove(this);
}

/**
 * @description
 * Sets the "checked" property value on the radio input element.
 */
RadioControlValueAccessor.prototype.writeValue = function (value) {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
}

/**
 * @description
 * Registers a function called when the control value changes.
 *
 * @param fn The callback function
 */
RadioControlValueAccessor.prototype.registerOnChange = function (fn) {
    var _this = this;
    this._fn = fn;
    this.onChange = function () {
        fn(_this.value);
        _this._registry.select(_this);
    };
}

/**
 * Sets the "value" on the radio input element and unchecks it.
 */
RadioControlValueAccessor.prototype.fireUncheck = function (value) { this.writeValue(value); }

/**
 * Registers a function called when the control is touched.
 *
 * @param fn The callback function
 */
RadioControlValueAccessor.prototype.registerOnTouched = function (fn) { this.onTouched = fn; }

/**
 * @description
 * Sets the "disabled" property on the input element.
 */
RadioControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

RadioControlValueAccessor.prototype._checkName = function () {
    if (this.name && this.formControlName && this.name !== this.formControlName) {
        this._throwNameError();
    }
    if (!this.name && this.formControlName)
        this.name = this.formControlName;
}

RadioControlValueAccessor.prototype._throwNameError = function () {
    throw new Error("If you define both a name and a formControlName attribute on your radio button, their values must match. Ex: <input type="radio" formControlName="food" name="food">");
}

RadioControlValueAccessor = __decorate([
    core.Directive({
        selector: 'input[type=radio][formControlName],input[type=radio][formModel],input[type=radio][ngModel]',
        host: { 'change': 'onChange()', 'blur': 'onTouched()' },
        providers: [RADIO_VALUE_ACCESSOR]
    }),
    __metadata("design:paramtypes", [core.Renderer2, core.ElementRef])
], RadioControlValueAccessor);

RadioControlValueAccessor = __decorate([core.Injector], RadioControlValueAccessor);

return RadioControlValueAccessor;
};}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

RANGE_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return RangeValueAccessor; }),
    multi: true
};

var RANGE_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return RangeValueAccessor; }),
    multi: true
};

Using a range input with a reactive form

The following example shows how to use a range input with a reactive
const ageControl = new FormControl();

```ts
const ageControl = new FormControl();
```

```ts
<input
    type="range"
    [formControl]="ageControl">
```

@ngModule ReactiveFormsModule
@ngModule FormsModule
@publicApi
var RangeValueAccessor = /** @class */ (function () {
  function RangeValueAccessor(_renderer, _elementRef) {
    this._renderer = _renderer;
    this._elementRef = _elementRef;
    this.onChange = function (_) { };
    this.onTouched = function () { };
    this.writeValue = function (value) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
    };
    this.registerOnChange = function (fn) {
      this.onChange = function (value) { fn(value == '' ? null : parseFloat(value)); };
    };
    this.setDisabledState = function (isDisabled) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };
    return RangeValueAccessor = __decorate([core.Directive({
      selector: 'input[type=range][formControlName], input[type=range][formControl], input[type=range][ngModel]',
      host: { (change): 'onChange($event.target.value)', (blur): 'onTouched()' },
      providers: [RANGE_VALUE_ACCESSOR],
      _metadata: { design: paramtypes3v1, [core.Renderer2, core.ElementRef]: return RangeValueAccessor }]);
  }
  return RangeValueAccessor;
})();

ReactiveErrors.controlParentException = function () {
  throw new Error("formControlName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class). Example: <div ngModelGroup="myGroup"></div>")
};

ReactiveErrors.ngModelWithFormGroup = function () {
  throw new Error("formControlName cannot be used with a parent formControl directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class). Example: <div formControlName="firstName" + FormErrorExamples.formControlName"></div>");
};
used with an `ngModelGroup` parent. It is only compatible with parents that also have a `formGroupName` prefix:

- `formGroupName`, `formArrayName`, or `formGroup`.

**Option 1**: Update the parent to be `formGroupName` (reactive form strategy):

```
new FormControl() {    
    formGroupName: 'foo',    
    Validators.required: []    
};
```

**Option 2**: Use `ngModel` instead of `formControlName` (template-driven strategy):

```
new FormControl() {    
    formArrayName: 'foo',    
    Validators.required: []    
};
```

**Option 3**: Use `ngModelGroup`:

```
new FormControl() {    
    formGroup: 'foo',    
    Validators.required: []    
};
```

---

**ReactiveErrors.missingFormException** = function () {

```
throw new Error('formGroupName must be used with a parent formGroup directive. You’ll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).
```

**ReactiveErrors.groupParentException** = function () {

```
throw new Error('formGroupName must be used with a parent formGroup directive. You’ll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).
```

**ReactiveErrors.arrayParentException** = function () {

```
throw new Error('formArrayName must be used with a parent formGroup directive. You’ll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).
```

**ReactiveErrors.disabledAttrWarning** = function () {

```
console.warn('It looks like you’re using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid ‘changed after checked’ errors.' + (formGroupName ? 'You can use the ' + formGroupName + ' formGroup name with your FormControl to automatically set the formGroup property when creating the FormControl instance.' : '') + ' Example:

```
form = new FormGroup({    
  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),    
  last: new FormControl('Drew', Validators.required)    
});
```
```

---

**Select _VALUE_ACCESSOR** = {

```
NG_VALUE_ACCESSOR: {    
  provide:    
  useExisting: core.forwardRef(function () { return SelectControlValueAccessor; }),    
  multi: true
};
```

**_buildValueString** (id, value) {

```
if (id == null) return '';    
if (value && typeof value === 'object')    
  value = 'Object';    
return (id + ': ' + value).slice(0, 50);
```

---

**_extractId** (valueString) {

```
return valueString.split(':')[0];
```

---

The `ControlValueAccessor` for writing select control values and listening to select control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives. * `@usageNotes

---

### Using select controls in a reactive form

```
<select [compareWith]="compareFn" [formControl]="selectedCountriesControl">
  <option *ngFor="let country of countries" [ngValue]="country">
    {{country.name}}
  </option>
</select>
```
```typescript
function compareFn(c1: Country, c2: Country): boolean {
* return c1 && c2 ? c1.id === c2.id : c1 === c2;
}

Note: We listen to the 'change' event because 'input' events aren't fired for selects in Firefox and IE.

https://bugzilla.mozilla.org/show_bug.cgi?id=1024350


* 
* The registered callback function called when a change event occurs on the input element.
* The registered callback function called when a blur event occurs on the input element.
* 
* The registered callback function called when a change event occurs on the input element.
* The registered callback function called when a blur event occurs on the input element.

```

**Note:** We listen to the 'change' event because 'input' events aren't fired for selects in Firefox and IE:
https://bugzilla.mozilla.org/show_bug.cgi?id=1024350


```
/**
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 * @description
 * Tracks simple string values bound to the option element. Unlike the value binding,
 * ngValue supports binding to objects.
 */

Object.defineProperty(NgSelectOption.prototype, 'value', {
    /**
     * Tracks simple string values bound to the option element.
     * For objects, use the `ngValue` input binding.
     */
    set: function (value) {
        this._setElementValue(value);
        if (this._select)
            this._select.writeValue(this._select.value);
    },
    enumerable: true,
    configurable: true
});

/** @internal */
NgSelectOption.prototype._setElementValue = function (value) {
    this._renderer.setProperty(this._element.nativeElement, 'value', value);
};

/**
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
NgSelectOption.prototype.ngOnDestroy = function () {
    if (this._select) {
        this._select._optionMap.delete(this.id);
        this._select.writeValue(this._select.value);
    }
};

__decorate([core.Input('ngValue'),
            __metadata("design:type", Object),
            __metadata("design:paramtypes", [Object])
        ], NgSelectOption.prototype, "ngValue", null);

__decorate([core.Input('value'),
            __metadata("design:type", Object),
            __metadata("design:paramtypes", [Object])
        ], NgSelectOption.prototype, "value", null);

NgSelectOption = __decorate([core.Directive({ selector: 'option' }),
                             __param(2, core.Optional()),
                             __param(2, core.Host()),
                             __metadata("design:paramtypes", [core.ElementRef, core.Renderer2,
                                                          SelectControlValueAccessor])
                         ], NgSelectOption); return NgSelectOption;

/**
 * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
 * control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 * @description
 * The 'ControlValueAccessor' for writing multi-select control values and listening to multi-select
 * control changes. The value accessor is used by the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives.
 * @usageNotes
 * ### Using a multi-select control
 * The follow example shows you how to use a multi-select control
 * with a reactive form.
 * ```ts
 * const countryControl = new FormControl();
 * ```
 * ```
 * <select multiple name="countries">
 *   
 * ```
 * ### Customizing option selection
 * Customizing option selection
 * To customize the default option comparison algorithm, `<select>` supports `compareWith` input.
 * See the 'SelectControlValueAccessor' for usage.
 */

SELECT_MULTIPLE_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return SelectMultipleControlValueAccessor; }),
    multi: true
};

_buildValueString$1 = function (id, value) {
    if (id == null)
        return "" + value;
    if (typeof value === 'string')
        value = "'" + value + "'";
    if (value && typeof value === 'object')
        value = 'Object';
    return (id + ": " + value).slice(0, 50);
};

_extractId$1 = function (valueString) {
    return valueString.split(':')[0];
};

Mock interface for HTMLCollection

*/

SelectMultipleControlValueAccessor = __decorate([
    core.Directive({
        selector: 'select[multiple][formControlName], select[multiple][formControlName][ngModel]' ,
        host: {
            'change': 'onChange(Sevent.target)', 'blur': 'onTouched()' },
        providers: [
            SELECT_MULTIPLE_VALUE_ACCESSOR
        ] }, SelectMultipleControlValueAccessor),
    SelectMultipleControlValueAccessor = __decorate([], SelectMultipleControlValueAccessor),
    SelectMultipleControlValueAccessor
]);

/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 * @see `SelectMultipleControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
var NgSelectMultipleOption = /** @class */ (function () {
    function NgSelectMultipleOption(_element, _renderer,
        _select) {
        this._element = _element;
        this._renderer = _renderer;
        this._select = _select;

        if (this._select) {
            this.id = this._select._registerOption(this);
        }
    }

    Object.defineProperty(NgSelectMultipleOption.prototype, "ngValue", {
        /**
         * Tracks the value bound to the option element. Unlike the value binding,
         * ngValue supports binding to objects.
         * @description
         * @ngModule ReactiveFormsModule
         * @ngModule FormsModule
         * @publicApi
         */
        set: function (value) {
            if (this._select == null) return;
            this._value = value;
            this._setElementValue(_buildValueString$1(this.id, value));
            this._select.writeValue(this._select.value);
        },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(NgSelectMultipleOption.prototype, "value", {
        /**
         * Tracks simple string values bound to the option element.
         * @description
         * @ngModule ReactiveFormsModule
         * @ngModule FormsModule
         * @publicApi
         */
        set: function (value) {
            if (this._select) {
                this._value = value;
                this._setElementValue(_buildValueString$1(this.id, value));
                this._select.writeValue(this._select.value);
            }
            else {
                this._setElementValue(value);
            }
        },
        enumerable: true,
        configurable: true
    });

    /** @internal */
    NgSelectMultipleOption.prototype._setElementValue = function (value) {
        this._renderer.setProperty(this._element.nativeElement, 'value', value);
    };

    /** @internal */
    NgSelectMultipleOption.prototype._setSelected = function (selected) {
        this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
    };

    /**
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     * @description
     * @ngModule ReactiveFormsModule
     * @ngModule FormsModule
     * @publicApi
     */
    NgSelectMultipleOption.prototype.ngOnDestroy = function () {
        if (this._select) {
            this._select._optionMap.delete(this.id);
            this._select.writeValue(this._select.value);
        }
    };

    __decorate(
        [], NgSelectMultipleOption.prototype, 'ngOnDestroy', null);

    NgSelectMultipleOption = __decorate(
        [core.Directive({
            selector: 'option' })], NgSelectMultipleOption.prototype, "ngValue", null);

    __decorate(
        [core.Input('ngValue')], NgSelectMultipleOption.prototype, "ngValue", null);

    __decorate(
        [core.Input('value')], NgSelectMultipleOption.prototype, "value", null);

    NgSelectMultipleOption = __decorate(
        [core.Renderer2, core.ElementRef], NgSelectMultipleOption.prototype, "value", null);

    NgSelectMultipleOption = __decorate(
        [core.Directive({
            selector: 'select[multiple][formControlName], select[multiple][formControlName][ngModel]' ,
            host: {
                'change': 'onChange(Sevent.target)', 'blur': 'onTouched()' },
            providers: [
                SELECT_MULTIPLE_VALUE_ACCESSOR
            ] }, SelectMultipleControlValueAccessor),
        SelectMultipleControlValueAccessor
    );

    __decorate(
        [core.Renderer2, core.ElementRef], SelectMultipleControlValueAccessor.prototype, "compareWith", null);

    SelectMultipleControlValueAccessor = __decorate([
        core.Directive({
            selector:
[36x36]Open Source Used In MSX SD-WAN Service Pack 4.0.0  5702
changes, e.g. minlength=3 -> minlength=4
    dir._rawValidators.forEach(function (validator) {
        if (validator.registerOnValidatorChange)
            validator.registerOnValidatorChange(function () { return
                control.updateValueAndValidity(); });
    });
    dir._rawAsyncValidators.forEach(function (validator) {
        if (validator.registerOnValidatorChange)
            validator.registerOnValidatorChange(function () { return
                control.updateValueAndValidity(); });
    });
    dir._clearChangeFns();
}

function setUpModelChangePipeline(control, dir) {
    dir.valueAccessor.registerOnChange(function (newValue) {
        if (control.updateOn === 'change')
            updateControl(control, dir);
        if (emitModelEvent)
            dir.viewToModelUpdate(newValue);
    });
}

function setUpFormContainer(control, dir) {
    if (control == null)
        _throwError(dir, 'Cannot find control
    control.validator = Validators.compose([control.validator, dir.validator]);
    control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
}

function selectValueAccessor(dir, valueAccessors) {
    if (!valueAccessors)
        return null;
    if (!Array.isArray(valueAccessors))
        _throwError(dir, 'Value accessor was not provided as an array for form
AbstractControl(validator, asyncValidator) {
  this.validator = validator;
  this.asyncValidator =
  this._onCollectionChange = function () { }
  this._onDisabledChange = function () { }
  /*@internal */
  this._onCollectionChange = function () { }
  this._onDisabledChange = function () { }
  /*@internal */
  * A control is `pristine` if the user has not yet changed
  * the value in the UI.
  * @returns True if the user has not yet changed the value in the UI; compare `dirty`.
  * Programmatic changes to a control's value do not mark it dirty.
  * This pristine is true; */
  * A control is marked `touched` once the user has triggered
  * a 'blur' event on it.
  * @returns True if this control has failed one or more of its validation checks.
  * false otherwise.
  *
  * A control is `invalid` when its `status` is `INVALID`.
  * @returns True if the control has passed all of its validation tests,
  * false otherwise.
  *
  * A control is `pending` when its `status` is `PENDING`.
  * @returns True if the control is in the process of conducting a validation check,
  * false otherwise.
  *
  * A control is `disabled` when its `status` is `DISABLED`.
  * Controls are exempt from validation checks and
  * are not included in the aggregate value of their ancestor
  *
  * A control is `enabled` as long as its `status` is not `DISABLED`.
  * * @returns True if the control has any status other than `DISABLED`.
  * if the control has any status other than `DISABLED`.
  * false if the status is `DISABLED`.
  * @see { @link AbstractControl.status}
  *
  * A control is `dirty` if the user has changed
  * the value in the UI; compare `pristine`.
  * @returns True if the user has changed the value
  * in the UI.
  * @returns False if this control is in the process of conducting a validation check,
  * @returns True if the control is disabled, false otherwise.
  * @returns True if this control is in the process of conducting a validation check,
  * false otherwise.
  *
  * A control is `valid` when its `status` is `VALID`.
  * @returns True if the control has passed all of its validation tests,
  * false otherwise.
  *
  * A control is `invalid` when its `status` is `INVALID`.
  * @returns True if the control has failed one or more of its validation checks.
  * false otherwise.
  *
  * A control is `pending` when its `status` is `PENDING`.
  * @returns True if this control is in the process of conducting a validation check,
  * false otherwise.
  *
  * A control is `disabled` when its `status` is `DISABLED`.
  * Controls are exempt from validation checks and
  * are not included in the aggregate value of their ancestor
  *
  * A control is `enabled` as long as its `status` is not `DISABLED`.
  * * @returns True if the control has any status other than `DISABLED`.
  * if the control has any status other than `DISABLED`.
  * false if the status is `DISABLED`.
  * @see { @link AbstractControl.status}
  *
  * A control is `dirty` if the user has changed
  * the value in the UI; compare `pristine`.
  * @returns True if the user has changed the value
  * in the UI.
  * @returns False if this control is in the process of conducting a validation check,
  * @returns True if the control is disabled, false otherwise.
  * @returns True if this control is in the process of conducting a validation check,
  * false otherwise.
  *
  * A control is `valid` when its `status` is `VALID`.
  * @returns True if the control has passed all of its validation tests,
  * false otherwise.
coerceToValidator(newValidator); };

/**
 *`Sets the async validators that are active on this control. Calling this method overwrites any existing async validators.`

* @param newValidator
* Marks the control as `dirty`. A control becomes dirty when its value is changed through the UI; compare `markAsTouched`. When false or not supplied, `false` marks all direct ancestors. Default is false.

* @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
* `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

* If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

* @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
* `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

* @param newValidator
* Marks the control and all its descendant controls as `touched`.

* @see `markAsUntouched`.

* @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
* `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

* @param newValidator
* Marks the control as `dirty`. A control becomes dirty when its value is changed through the UI; compare `markAsTouched`. When false or not supplied, `false` marks all direct ancestors. Default is false.

* @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
* `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

* A control is pending while the control performs async validation.
(the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is updated.

```
this._calculateStatus();
this._updateValue();
```

When false, no events are emitted.

```
this._cancelExistingSubscription();
```

```
"@usageNotes"
```

### Retrieve a nested control

```
const login = new FormControl('someLogin');
login.setValue('someOtherLogin');
expect(login.valid).toEqual(true);
```

For example, to get a `name` control nested within a `person` sub-group:

```
this.form.get('person.name');
```

```
*OR*
```

```
this.form.get('person', 'name');
```

### Manually set the errors for a control

```
this.errors = errors;
this._updateControlsErrors(opts.emitEvent !== false);
```

```
"@usageNotes"
```

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```
this.errors = errors;
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login.setValue('someOtherLogin');
expect(login.valid).toEqual(true);
```

For example, to get a `name` control nested within a `person` sub-group:

```
this.form.get('person.name');
```

```
*OR*
```

```
this.form.get('person', 'name');
```
FormGroup({
  address: new FormGroup({
    street: new FormControl()
  })
});

The path to the 'street' control from the root form would be 'address' -> 'street'.

It can be provided to this method in one of two formats:

1. An array of string control names, e.g. `[['address', 'street']]`

2. A period-delimited list of control names in one string, e.g. `['address.street']`

If no path is given, this method checks for the error on the current control. If the control is not present, false is returned.

```
/**
 * Retrieves the top-level ancestor of this control.
 */
 AbstractControl.prototype._getRoot = function () {
   var x = this;
   while (x._parent) {
     x = x._parent;
   }
   return x;
};
```

```
/**
 * Retrieves the top-level ancestor of this control.
 */
 AbstractControl.prototype._getRoot = function () {
   var x = this;
   while (x._parent) {
     x = x._parent;
   }
   return x;
};
```
does behave differently.

```typescript
FormGroup.prototype.patchValue = function (value, options) {
    this.setValue(value, options);
};
```

```typescript
FormControl.prototype.patchValue = function (value, options) {
    if (options === void 0) { options = {}; }
    this.setValue(value, options);
};
```

This sets the value of the control

```typescript
this.setValue(value, options);
```

When the value is not a primitive

```typescript
this.setValue(value, options);
```

And setting

```typescript
this.setValue(value, options);
```

When the value is a primitive

```typescript
this.setValue(value, options);
```

And setting

```typescript
this.setValue(value, options);
```

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```

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```typescript
this.setValue(value, options);
```

When the value is a primitive

```typescript
this.setValue(value, options);
```

And setting

```typescript
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```
The options object is used to set a default value for each child control’s `updateOn` property. If you set `updateOn` to `blur` at the `group` level, all child controls default to `blur`, unless the child has explicitly specified a different `updateOn` value.

```ts
const form = new FormGroup({
  one: new FormControl(),
  two: new FormControl('', Validators.required),
  three: new FormControl(),
});
```

The options object is used to set a default value for each child control’s `updateOn` property. If you set `updateOn` to `blur` at the `group` level, all child controls default to `blur`, unless the child has explicitly specified a different `updateOn` value.

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  three: new FormControl(),
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```

The options object is used to set a default value for each child control’s `updateOn` property. If you set `updateOn` to `blur` at the `group` level, all child controls default to `blur`, unless the child has explicitly specified a different `updateOn` value.

```ts
const form = new FormGroup({
  one: new FormControl(),
  two: new FormControl('', Validators.required),
  three: new FormControl(),
});
```
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```typescript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});

console.log(form.value);  // {first: 'first name', last: 'last name'}

form.reset({
  first: 'name',
  last: 'last name' });

console.log(form.value);  // {first: 'first name', last: 'last name'}

@usageNotes

### Reset the form group values and disabled status

```typescript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl()});

console.log(form.value);   // {first: null, last: null}

form.patchValue({first: 'Nancy'});
console.log(form.value);   // {first: 'Nancy', last: null}

form.patchValue({first: 'Nancy', last: 'Drew'});
console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
```
`FormArray` is one of the three fundamental building blocks used to define forms in Angular, along with example, if one of the controls in a `FormArray` is invalid, the entire array becomes invalid. The `FormArray` aggregates the values of each child `FormControl` into an array. It calculates its status by reducing the status values of its children. For `FormControl`, `FormGroup` or `FormArray` instances, a `FormArray` contains a set of controls that are all related, either by an array index or by being part of the same `FormGroup`. Each `FormControl` in a `FormArray` can be accessed by index, just like an `Array`. A `FormArray` is similar to a `Map` in that it allows for the addition and removal of controls at runtime, and each control has its own `name` property.

```typescript
FormGroup.prototype._reduceChildren = function (initValue, fn) {
  var res = initValue;
  this._forEachChild(function (control, name) {
    res = fn(res, control, name);
  });
  return res;
};
```

There are no form controls registered with this group yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).

```typescript
var subtreeUpdated = this._reduceChildren(false, function (updated, child) {
  return child._syncPendingControls() ? true : updated;
});
```

The aggregate value of the `FormGroup`, including any disabled controls. Retrieves all values regardless of disabled status. The `value` property is the best way to get the value of the group, because it excludes disabled controls in the `FormGroup`. The `FormGroup.prototype.getRawValue` function returns a value from the `FormGroup` or its child controls. It is useful for obtaining the current state of the form.

```typescript
return this._reduceChildren({}, function (acc, control, name) {
  acc[name] = control.getRawValue();
  return acc;
});
```

If the `FormArray` is invalid, the entire array becomes invalid. There are no form controls registered with this group yet. The `value` property is the best way to get the value of the group, because it excludes disabled controls in the `FormGroup`. It only returns values from the controls that are not disabled.
FormArray.prototype.setControl = function (index, control) {
    if (this.controls[index])
        this.controls.splice(index, 1);
    if (control) {
        this.controls.splice(index, 0, control);
        this.controls[index]._registerOnCollectionChange(function () { });
    }
}

FormArray.prototype.removeAt = function (index) {
    if (this.controls[index])
        this.controls.splice(index, 1);
    this.updateValueAndValidity();
}

FormArray.prototype.insert = function (index, control) {
    this.controls.splice(index, 0, control);
    this.controls[index]._registerOnCollectionChange(function () { });
    this.updateValueAndValidity();
}

FormArray.prototype.push = function (control) {
    this.controls.push(control);
    this._registerControl(control);
    this.updateValueAndValidity();
}

FormArray.prototype.at = function (index) {
    return this.controls[index]; };

FormArray.prototype.length = function () { return this.controls.length; },

this._onCollectionChange();

### Set the updateOn property for all controls in a form array

* The options object is used to set a default value for each child
  * control's `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls default to `'blur'`, unless the child
  * has explicitly specified a different `updateOn` value.

* You include array-level validators and async validators. These come in handy
  * when you want to perform validation that considers the value of more than one child

* The two types of validators are passed in separately as the second and third arg
  * respectively, or together as part of an options object:

* `validatorOrOpts` A synchronous validator function, or an array of
  * such functions, or an

  * `AbstractControlOptions` object that contains validation functions
  * and a validation trigger.

* `asyncValidator` A single async validator or array of async validator functions
  * function FormArray(controls, validatorOrOpts, asyncValidator) {

* `FormArray` directly, as that result in strange and unexpected behavior such
  * as broken change detection.

* Do not modify the array of `AbstractControl`s used to instantiate
  * the `FormArray` directly, as that result in strange and unexpected behavior such
  * as broken change detection.

* The options object is used to set a default value for each child
  * control's `updateOn` property. If you set `updateOn` to `'blur'` at the array
  * level, all child controls default to `'blur'`, unless the child
  * includes the
  * form's hierarchy. Do not modify the array of `AbstractControl`s used to instantiate
  * the `FormArray` directly, as that result in strange and unexpected behavior such
  * as broken change detection.

* The options object is used to set a default value for each child
  * control's `updateOn` property. If you set `updateOn` to `'blur'` at the array
  * level, all child controls default to `'blur'`, unless the child
  * has explicitly specified a different `updateOn` value.

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* The options object is used to set a default value for each child
  * control's `updateOn` property. If you set `updateOn` to `'blur'` at the array
  * level, all child controls default to `'blur'`, unless the child
  * has explicitly specified a different `updateOn` value.

* You include array-level validators and async validators. These come in handy
  * when you want to perform validation that considers the value of more than one child

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  * as broken change detection.

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  * the `FormArray` directly, as that result in strange and unexpected behavior such
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* The options object is used to set a default value for each child
  * control's `updateOn` property. If you set `updateOn` to `'blur'` at the array
  * level, all child controls default to `'blur'`, unless the child
  * has explicitly specified a different `updateOn` value.

* You include array-level validators and async validators. These come in handy
  * when you want to perform validation that considers the value of more than one child
### Reset the values in a form array

```ts
const arr = new FormArray(
    [new FormControl(),
     new FormControl()]
); console.log(arr.value);   // [null, null]
```

```ts
arr.setValue(['Nancy', 'Drew']);
```

```ts
console.log(arr.value);   // ['Nancy', 'Drew']
```

```ts
arr.setValue([null, null]);
```

```ts
console.log(arr.value);   // [null, null]
```

```ts
arr.setValue(['Nancy', 'Drew']);
```

```ts
console.log(arr.value);   // ['Nancy', 'Drew']
```

```ts
arr.setValue(['Nancy']);
```

```ts
console.log(arr.value);   // ['Nancy', null]
```

```ts
arr.setValue(['Nancy', null]);
```

```ts
console.log(arr.value);   // ['Nancy', null]
```
```
Object.defineProperty(NgForm.prototype, "formDirective", {
    /**
     * @description
     * The internal `FormGroup` instance.
     */
    get: function () { return this.form控股集团; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgForm.prototype, "controls\", {
    /**
     * Returns a map of the controls in this group.
     */
    get: function () { return this.form.controls; },
    enumerable: true,
    configurable: true
});
```
the control directive in this group, re-calculates its value
* and validity, and adds the instance to the internal
list of directives.

NgForm.prototype.addControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        dir.control =
        container.registerControl(dir.name, dir.control);
        setUpControl(dir.control, dir);
        dir.control.updateValueAndValidity({ emitEvent: false });
        _this._directives.push(dir);
    });
}

/* */
/* @description
 * Retrieves the FormControl instance from the provided `NgModel`
directive.

NgForm.prototype.getControl = function (dir) { return this.form.get(dir.path); });
/* */
/* @description
 * Removes the `NgModelGroup` directive instance from the internal list of directives

NgForm.prototype.removeFormGroup = function (dir) { return (this._directives, dir)
    if (container) {
        container.removeControl(dir.name);
    };
}

/* */
/* @description
 * Adds a new `NgModelGroup` directive instance to the form.

NgForm.prototype.addFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        };
    });
}

/* */
/* @description
 * Removes the `NgModelGroup` directive instance from the form.

NgForm.prototype.removeControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        };
    });
}

/* */
/* @description
 * Removes the `NgModel` directive instance.

NgForm.prototype.removeFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        };
    });
}

/* */
/* @description
 * Adds a new `NgModel` directive instance.

NgForm.prototype.addControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var ctrl = _this.form.get(dir.path);
        ctrl.setValue(value);
    });
}

/* */
/* @description
 * Retrieves the `FormControl` instance from the provided `NgModel`
directive.

NgForm.prototype.getControl = function (dir) { return this.form.get(dir.path); });
/* */
/* @description
 * Updates the FormGroup instance for the provided `NgModel`
directive instance.

NgForm.prototype.updateModel = function (dir, value) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        };
    });
}

/* */
/* @description
 * Adds the `NgModelGroup` directive instance to the form.

NgForm.prototype.addFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        var group =
        new FormGroup({});
        setUpFormContainer(group, dir);
        container.registerControl(dir.name, group);
        group.updateValueAndValidity({ emitEvent: false });
    });
}

/* */
/* @description
 * Removes the `NgModelGroup` directive instance from the form.

NgForm.prototype.removeFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        var group =
        new FormGroup({});
        setUpFormContainer(group, dir);
        container.registerControl(dir.name, group);
        group.updateValueAndValidity({ emitEvent: false });
    });
}

/* */
/* @description
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NgForm.prototype.addControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        if (container) {
            container.removeControl(dir.name);
        };
    });
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/* @description
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        var group =
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        setUpFormContainer(group, dir);
        container.registerControl(dir.name, group);
        group.updateValueAndValidity({ emitEvent: false });
    });
}

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NgForm.prototype.addFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        var group =
        new FormGroup({});
        setUpFormContainer(group, dir);
        container.registerControl(dir.name, group);
        group.updateValueAndValidity({ emitEvent: false });
    });
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    resolvedPromise.then(function () {
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        var group =
        new FormGroup({});
        setUpFormContainer(group, dir);
        container.registerControl(dir.name, group);
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        var group =
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        group.updateValueAndValidity({ emitEvent: false });
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        var group =
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        container.registerControl(dir.name, group);
        group.updateValueAndValidity({ emitEvent: false });
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    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        var group =
        new FormGroup({});
        setUpFormContainer(group, dir);
        container.registerControl(dir.name, group);
        group.updateValueAndValidity({ emitEvent: false });
    });
}
host: { 'submit': 'handleSubmit(\$event)', 'reset': 'onReset(\$event)' },

output: ['ngSubmit']

exportAs: 'ngForm\n
            __param(0, core.Optional()), __param(0, core.Self()), __param(0,
core.Inject(NG_VALIDATORS)),
            __param(1, core.Optional()), __param(1, core.Self()), __param(1,
core.Inject(NG_ASYNC_VALIDATORS)),
            _metadata("design:paramtypes", [Array, Array])
        ],

NgForm); return NgForm\n
            __param(0, core.Optional()), __param(0, core.Self()), __param(0,
core.Inject(NG_VALIDATORS)),
            __param(1, core.Optional()), __param(1, core.Self()), __param(1,
core.Inject(NG_ASYNC_VALIDATORS)),
            _metadata("design:paramtypes", [Array, Array])
        ],

NgForm); return NgForm

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    /**
     * @description
     * A base class for
code shared between the `NgModelGroup` and `FormGroupName` directives.

    var AbstractFormGroupDirective = /** @class */ (function (_super) {
        __extends(AbstractFormGroupDirective, _super);
        function AbstractFormGroupDirective() {
            return _super !== null && _super.apply(this, arguments) || this;
        }

        /**
         * @description
         * An internal callback method triggered on the instance after the inputs are set.

        Object.defineProperty(AbstractFormGroupDirective.prototype, "control", {
            /**
             * @description
             * The `FormGroup` bound to this directive.
             */
            get: function () { return this.formDirective.getFormGroup(this); },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractFormGroupDirective.prototype, "path", {
            /**
             * @description
             * The path to this group from the top-level directive.
             */
            get: function () {
                return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
            },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractFormGroupDirective.prototype, "formDirective", {
            /**
             * @description
             * The top-level directive for this group if
             */
            get: function () { return this._parent ? this._parent.formDirective : null; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractFormGroupDirective.prototype, "validator", {
            /**
             * @description
             * The synchronous validators registered with this group.
             */
            get: function (){
                return composeValidators(this._validators);
            },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(AbstractFormGroupDirective.prototype, "asyncValidator", {
            /**
             * @description
             * The async validators registered with this group.
             */
            get: function (){
                return composeAsyncValidators(this._asyncValidators);
            },
            enumerable: true,
            configurable: true
        });

        /** @internal */
        AbstractFormGroupDirective.prototype._checkParentType = function () { };

    return AbstractFormGroupDirective;

    /**
     * @license
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     *
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    var

    var AbstractFormGroupDirective = /** @class */ (function (_super) {
        __extends(AbstractFormGroupDirective, _super);
        function AbstractFormGroupDirective() {
            return _super !== null && _super.apply(this, arguments) || this;
        }

        /**
         * @description
         * An internal callback method triggered before the instance is destroyed.

        Object.defineProperty(AbstractFormGroupDirective.prototype, "control", {
            /**
             * @description
             * The `FormGroup` bound to this directive.

        Object.defineProperty(AbstractFormGroupDirective.prototype, "path", {
            /**
             * @description
             * The path to this group from the top-level directive.

        Object.defineProperty(AbstractFormGroupDirective.prototype, "validator", {
            /**
             * @description
             * The synchronous validators registered with this group.

        Object.defineProperty(AbstractFormGroupDirective.prototype, "asyncValidator", {
            /**
             * @description
             * The async validators registered with this group.

        /** @internal */
        AbstractFormGroupDirective.prototype._checkParentType = function () { };

    return AbstractFormGroupDirective;

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     * found in the LICENSE file at https://angular.io/license
     */
    var

    var AbstractFormGroupDirective = /** @class */ (function (_super) {
        __extends(AbstractFormGroupDirective, _super);
        function AbstractFormGroupDirective() {
            return _super !== null && _super.apply(this, arguments) || this;
        }

        /**
         * @description
         * An internal callback method triggered before the instance is destroyed.

        Object.defineProperty(AbstractFormGroupDirective.prototype, "control", {
            /**
             * @description
             * The `FormGroup` bound to this directive.

        Object.defineProperty(AbstractFormGroupDirective.prototype, "path", {
            /**
             * @description
             * The path to this group from the top-level directive.

        Object.defineProperty(AbstractFormGroupDirective.prototype, "validator", {
            /**
             * @description
             * The synchronous validators registered with this group.

        Object.defineProperty(AbstractFormGroupDirective.prototype, "asyncValidator", {
            /**
             * @description
             * The async validators registered with this group.

        /** @internal */
        AbstractFormGroupDirective.prototype._checkParentType = function () { };

    return AbstractFormGroup Directive;
{\n
throw new Error(\"If ngModel is used within a form tag, either the name attribute must be set or the
form\\n
control must be defined as 'standalone' in ngModelOptions.\\n\\n
Example 1: <input
[(ngModel)]=\\\"person.firstName\\\" name=\\\"first\\\">\\n
Example 2: <input
[(ngModel)]=\\\"person.firstName\\\" [ngModelOptions]=\\\"{standalone: true}\\\">\");\n
};\n
TemplateDrivenErrors.modelGroupParentException = function () {\n
throw new Error(\"\\n
ngModelGroup cannot be used with a parent formGroup directive.\\n\\n
Option 1: Use formGroupName instead
of ngModelGroup (reactive strategy):\\n\\n
\" + FormErrorExamples.formGroupName + \"\\n\\n
Option 2:
Use a regular form tag instead of the formGroup directive (template-driven strategy):\\n\\n
\" +
FormErrorExamples.ngModelGroup);\n
};\n
return TemplateDrivenErrors;\n }());\n\n /**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n var
modelGroupProvider = {\n
provide: ControlContainer,\n
useExisting: core.forwardRef(function () { return
NgModelGroup; })\n };\n /**\n * @description\n * Creates and binds a `FormGroup` instance to a DOM
element.\n *\n * This directive can only be used as a child of `NgForm` (within `<form>` tags).\n *\n *
Use this directive to validate a sub-group of your form separately from the\n * rest of your form, or if some values
in your domain model make more sense\n * to consume together in a nested object.\n *\n * Provide a name
for the sub-group and it will become the key\n * for the sub-group in the form's full value. If you need direct
access, export the directive into\n * a local template variable using `ngModelGroup` (ex:
`#myGroup=\"ngModelGroup\"`).\n *\n * @usageNotes\n *\n * ### Consuming controls in a grouping\n
*\n * The following example shows you how to combine controls together in a sub-group\n * of the form.\n
*\n * {@example forms/ts/ngModelGroup/ng_model_group_example.ts region='Component'}\n *\n *
@ngModule FormsModule\n * @publicApi\n */\n var NgModelGroup = /** @class */ (function (_super) {\n
__extends(NgModelGroup, _super);\n
function NgModelGroup(parent, validators, asyncValidators) {\n
var _this = _super.call(this) || this;\n
_this._parent = parent;\n
_this._validators = validators;\n
_this._asyncValidators = asyncValidators;\n
return _this;\n
}\n
NgModelGroup_1 =
NgModelGroup;\n
/** @internal */\n
NgModelGroup.prototype._checkParentType = function () {\n
if (!(this._parent instanceof NgModelGroup_1) && !(this._parent instanceof NgForm)) {\n
TemplateDrivenErrors.modelGroupParentException();\n
}\n
};\n
var NgModelGroup_1;\n
__decorate([\n
core.Input('ngModelGroup'),\n
__metadata(\"design:type\", String)\n
],
NgModelGroup.prototype, \"name\", void 0);\n
NgModelGroup = NgModelGroup_1 = __decorate([\n
core.Directive({ selector: '[ngModelGroup]', providers: [modelGroupProvider], exportAs: 'ngModelGroup' }),\n
__param(0, core.Host()), __param(0, core.SkipSelf()),\n
__param(1, core.Optional()), __param(1,
core.Self()), __param(1, core.Inject(NG_VALIDATORS)),\n
__param(2, core.Optional()), __param(2,
core.Self()), __param(2, core.Inject(NG_ASYNC_VALIDATORS)),\n
__metadata(\"design:paramtypes\",
[ControlContainer, Array, Array])\n
], NgModelGroup);\n
return NgModelGroup;\n
}(AbstractFormGroupDirective));\n\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n var formControlBinding = {\n
provide: NgControl,\n
useExisting:
core.forwardRef(function () { return NgModel; })\n };\n var 0$1 = function () { return Promise.resolve(null);
};\n /**\n * `ngModel` forces an additional change detection run when its inputs change:\n * E.g.:\n * ```\n
* <div>{{myModel.valid}}</div>\n * <input [(ngModel)]=\"myValue\" #myModel=\"ngModel\">\n * ```\n
* I.e. `ngModel` can export itself on the element and then be used in the template.\n * Normally, this would result
in expressions before the `input` that use the exported directive\n * to have and old value as they have been\n *
dirty checked before. As this is a very common case for `ngModel`, we added this second change\n * detection
run.\n *\n * Notes:\n * - this is just one extra run no matter how many `ngModel` have been changed.\n * this is a general problem when using `exportAs` for directives!\n */\n var resolvedPromise$1 = (0$1)();\n
/**\n * @description\n * Creates a `FormControl` instance from a domain model and binds it\n * to a form
control element.\n *\n * The `FormControl` instance tracks the value, user interaction, and\n * validation

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status of the control and keeps the view synced with the model. If used within a parent form, the directive also registers itself with the form as a child control and keeps the view synced with the model. Use the `ngModel` selector to activate it. It accepts a domain model as an optional `Input`. If you have a one-way binding to `ngModel` with `[[]]` syntax, changing the value of the domain model in the component class sets the value in the view. If you have a two-way binding with `[[]]` syntax (also known as 'banana-box syntax'), the value in the UI always syncs back to the domain model in your class.

To inspect the properties of the associated `FormControl` (like validity state), `export` the directive into a local template variable using `ngModel` as the key (ex: `#myVar="\$ngModel\$\"`). You then access the control using the directive's 'control' property, but most properties used (like 'valid' and 'dirty') fall through to the control anyway for direct access.

The following examples show a simple standalone control using `ngModel`:

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
</form>
```

Setting the `ngModel` name attribute through options:

```html
<my-person-control name="Nancy" ngModel [ngModelOptions]="{name: 'user'}">
  </my-person-control>
</form>
```

@publicApi
*/

```typescript
function NgModel(parent, validators, asyncValidators, valueAccessors) {
    var _this = _super.call(this) || this;
    _this.control = new FormControl();
    /** @internal */
    _this._registered = false;

    /**
     * @description
     * Event emitter for producing the `ngModelChange` event after the view model updates.
     */
    _this.update = new core.EventEmitter();
    _this._parent = parent;
    _this._rawValidators = validators || [];
    _this._rawAsyncValidators = asyncValidators || [];

    _this.valueAccessor = selectValueAccessor(_this, valueAccessors);
    return _this;
}
```

The following example shows controls using `ngModel` within a form:

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
</form>
```

```html
<!-- form value: {login: ''} -->
```

Setting the `ngModel` name attribute through options:

```html
<my-person-control name="Nancy" ngModel [ngModelOptions]="{name: 'user'}">
  </my-person-control>
</form>
```

```html
<!-- form value: {user: ''} -->
```
/**
 * @description
 * Returns an array that represents the path from the top-level form to this
 * control.
 * Each index is the string name of the control on that level.
 */
get: function () {
    return this._parent ? controlPath(this.name, this._parent) : [this.name];
},

/*
 * Synchronous validator function composed of all the synchronous validators
 * registered with this directive.
 */
get: function () {
    return this._parent ? controlPath(this.name, this._parent) : [this.name];
},

/**
 * Async validator function composed of all the async validators
 * registered with this directive.
 */
get: function () {
    return composeAsyncValidators(this._rawAsyncValidators);
},

/**
 * Sets the new value for the view model and emits an `ngModelChange`
 * event.
 */
this._setUpControl = function () {
    this._setUpdateStrategy();
    this._isStandalone() ? this._setUpStandalone() : this.formDirective.addControl(this);
    this._registered = true;
};

NgModel.prototype._setUpdateStrategy = function () {
    if (this.options && this.options.updateOn != null) {
        this.control._updateOn = this.options.updateOn;
    }
};

NgModel.prototype._isStandalone = function () {
    return !this._parent || !!(this.options && this.options.standalone);
};

NgModel.prototype._setUpStandalone = function () {
    setUpControl(this.control, this);
    this.control.updateValueAndValidity({ emitEvent: false });
};

NgModel.prototype._checkForErrors = function () {
    if (!this._isStandalone()) {
        this._checkParentType();
    }
    this._checkName();
};

NgModel.prototype._checkParentType = function () {
    if (!(this._parent instanceof NgModelGroup) &&
        this._parent instanceof AbstractFormGroupDirective) {
        TemplateDrivenErrors.formGroupNameException();
    }
    else if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
        TemplateDrivenErrors.modelParentException();
    }
};

NgModel.prototype._checkName = function () {
    if (this.options && this.options.name)
        this.name = this.options.name;
    if (!this._isStandalone() && !this.name) {
        TemplateDrivenErrors.missingNameException();
    }
};

NgModel.prototype._updateValue = function (value) {
    var _this = this;
    resolvedPromise$1.then(function () { _this.control.setValue(value, { emitViewToModelChange: false }); });
};

NgModel.prototype._updateDisabled = function (changes) {
    var _this = this;
    var disabledValue = changes['isDisabled'].currentValue;
    var isDisabled = disabledValue === '' || (disabledValue && disabledValue !== 'false');
    resolvedPromise$1.then(function () { if (isDisabled && !_this.control.disabled) {
        _this.control.disable();
    } else if (!_isDisabled && _this.control.disabled) {
        _this.control.enable();
    } });
};

__decorate([core.Input(),
            __metadata("design:type", String)
        ], NgModel.prototype, "name", void 0);

__decorate([core.Input('disabled'),
            __metadata("design:type", Boolean)
        ], NgModel.prototype, "isDisabled", void 0);

__decorate([core.Output('ngModelChange'),
            __metadata("design:type", Object)
        ], NgModel.prototype, "update", void 0);

__decorate([core.Input('ngModel'),
            __metadata("design:type", Object)
        ], NgModel.prototype, "model", void 0);

__decorate([core.Input('ngModelOptions'),
            __metadata("design:type", Object)
        ], NgModel.prototype, "options", void 0);

__decorate([core.Output('ngModelChange'),
            __metadata("design:type", Object)
        ], NgModel.prototype, "update", void 0);

NgModel = __decorate([core.Directive({
            selector: 
        })
    , NgModelGroupGroupDirective),

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```typescript
[ngModel]:not([formControlName]):not([formControl])

providers: [formControlBinding],

exportAs: 'ngModel

__param(0, core.Optional()), __param(0, core.Host()),

__param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_VALIDATORS)),

__param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_ASYNC_VALIDATORS)),

__param(3, core.Optional()), __param(3, core.Self()), __param(3, core.Inject(NG_VALUE_ACCESSOR)),

__metadata("design:paramtypes", [ControlContainer, Array, Array, Array])

NgModel);

return NgModel;

@ngModule(FormsModule

var NgNoValidate = new
core.InjectionToken('NgModelWithFormControlWarning');

var formControlBinding$1 = {
provide: NgControl,
useExisting: core.forwardRef(function () { return FormControlDirective; })

@description
* Syncs a standalone `FormControl` instance to a form control element.

@see [Reactive Forms Guide](guide/reactive-forms)
@see `FormControl`
@see `AbstractControl`

### Registering a single form control

The following examples shows how to register a single form control and set its value:

```ts
this.control.setValue('some value');
```
Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of "always". This may help to track down where in the code the pattern is being used. *!

```
Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of "always". This may help to track down where in the code the pattern is being used. *
```
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```javascript
__decorate([], FormControlDirective.prototype, 'isDisabled', Object);

__decorate([], FormControlDirective.prototype, 'model', void 0);

__decorate([], FormControlDirective.prototype, 'update', void 0);

FormControlDirective = FormControlDirective_1 = __decorate([], FormControlDirective.prototype, 'formControl', null);

/**
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 * 
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 */
formDirectiveProvider$1 = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return FormGroupDirective; })
};

/**
 * @description
 * Binds an existing FormGroup to a DOM element.
 * 
 * This directive accepts an existing FormGroup instance. It will then use this instance to match any child FormControl, FormGroup, and FormArray instances to child FormControl, FormGroup, and FormArray directives.
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `AbstractControl`
 * 
 * ### Register FormGroup
 * 
 * The following example registers a FormGroup with first name and last name controls, and listens for the *ngSubmit* event when the button is clicked.
 * 
 * @ngModule ReactiveFormsModule
 * @publicApi
 */
FormGroupDirective = /** @class */ (function (_super) {
    __extends(FormGroupDirective, _super);

    function FormGroupDirective(_validators, _asyncValidators) {
        var _this = _super.call(this) || this;
        _this._validators = _validators;
        _this._asyncValidators = _asyncValidators;
        /**
         * @description
         * REPORTS whether the form submission has been triggered.
         */
        _this.submitted = false;
        /**
         * Tracks the list of added FormControlName instances.
         */
        _this.directives = [];
        /**
         * Tracks the FormGroup bound to this directive.
         */
        _this.form = null;
        /**
         * Emits an event when the form submission has been triggered.
         */
        _this.ngSubmit = new core.EventEmitter();
        return _this;
    }

    FormGroupDirective.prototype.ngOnChanges = function (changes) {
        this._checkFormPresent();
        if (changes.hasOwnProperty('form')) {
            this._updateValidators();
            this._updateDomValue();
            this._updateRegistrations();
        }
    };

    Object.defineProperty(FormGroupDirective.prototype, 'control', {
        /**
         * Returns the FormGroup bound to this directive.
         */
        get: function () { return this.form; },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(FormGroupDirective.prototype, 'path', {
        /**
         * Returns an array representing the path to this group.
         */
        get: function () { return []; },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(FormGroupDirective.prototype, 'controlDir', {
        /**
         * Method that sets up the control directive in this group, re-calculates its value and validity, and adds the instance to the internal list of directives.
         */
        get: function () { return []; },
        enumerable: true,
        configurable: true
    });

    return FormGroupDirective;
})(NgControl);

```

---

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composeValidators(this._validators);
            this.form.validator = Validators.compose([this.form.validator, sync]);
            var async = composeAsyncValidators(this._asyncValidators);
            this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator, async]);
        };
    }

FormGroupDirective.prototype._checkFormPresent = function () {
    if (!this.form) {
        ReactiveErrors.missingFormException();
    }
};

FormGroupDirective.prototype._checkParentType = function () {
    if (_hasInvalidParent(this._parent)) {
        ReactiveErrors.groupParentException();
    }
};

FormGroupDirective = __decorate([core.Directive({
    selector: '[formGroup]',
    providers: [formDirectiveProvider$1],
    host: {
        '(submit)': 'onSubmit($event)',
        '(reset)': 'onReset($event)'
    },
    exportAs: 'ngForm'
}),
    __param(0, core.Optional()), __param(0, core.Self()),
    __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
    __metadata("design:paramtypes", [Array, Array])
], FormGroupDirective);

return FormGroupDirective;

/**
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 * 
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 */
formGroupNameProvider = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return FormGroupName; })
};

FormGroupName = /** @class */ (function (_super) {
    __extends(FormGroupName, _super);
    function FormGroupName(parent, validators, asyncValidators) {
        var _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }

    /** @internal */
    FormGroupName.prototype._checkParentType = function () {
        if (_hasInvalidParent(this._parent)) {
            ReactiveErrors.groupParentException();
        }
    };

    return FormGroupName;
}(AbstractFormGroupDirective));

formArrayNameProvider = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return FormArrayName; })
};

FormArrayName = /** @class */ (function (_super) {
    __extends(FormArrayName, _super);
    function FormArrayName(parent, validators, asyncValidators) {
        var _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }

    /** @internal */
    FormArrayName.prototype._checkParentType = function () {
        if (_hasInvalidParent(this._parent)) {
            ReactiveErrors.groupParentException();
        }
    };

    return FormArrayName;
}(AbstractFormArrayDirective));
look for a `FormArray` registered with that name in the parent
* `FormGroup` instance you passed into
`FormGroupDirective`.

```
var FormArrayName = /** @class */ (function (_super) {
    __extends(FormArrayName, _super);...
    return this;
})
```

A lifecycle method called when the directive’s inputs are initialized. For internal use only.

If the directive does not have a valid parent.

```
FormArrayName.prototype.ngOnInit = function () {
    this.formDirective.addFormArray(this);
}
```

For internal use only.

* `@description
 * A lifecycle method called before the directive’s instance is destroyed. For internal use only.
 *
 * @throws
 * If there is no valid parent.
```
FormArrayName.prototype.ngOnDestroy = function () {
    if (this.formDirective) {
        this.formDirective.removeFormArray(this);
    }
}
```

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@usageNotes
### Register `FormControl` within a `FormGroup`

The following example shows how to register multiple form controls within a form group and set their values:

```ts
@example
FormsModule
```
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```
/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For internal
 * use only.
 */
FormControlName.prototype.ngOnDestroy = function () {
    if (this.formDirective)
        { this.formDirective.removeControl(this); }
    /*@description*/
    FormControlName.prototype.$viewToModelUpdate = function (newValue) {
        this.viewModel = newValue;
        this.update.emit(newValue);
    };

    Object.defineProperty(FormControlName.prototype, "path", {
        /*@description*/
        get: function () {
            return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormControlName.prototype, "formDirective", {
        /*@description*/
        get: function () { return this._parent ? this._parent.formDirective : null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormControlName.prototype, "validator", {
        /*@description*/
        get: function () { return composeValidators(this._rawValidators); },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(FormControlName.prototype, "asyncValidator", {
        /*@description*/
        get: function () { return composeAsyncValidators(this._rawAsyncValidators); },
        enumerable: true,
        configurable: true
    });

    this._checkParentType();
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState) {
        this.valueAccessor.setDisabledState(true);
    }

    this._added = true;
};

FormControlName.prototype._setUpControl = function () {
    this._checkParentType();
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState) {
        this.valueAccessor.setDisabledState(true);
    }

    this._added = true;
};

var FormControlName_1;
/**
 * @description
 * Static
 * property used to track whether any ngModel warnings have been sent across all
 * instances of FormControlName. Used to support warning config of "once".
 *
 * @internal
 */
FormControlName._ngModelWarningSentOnce = false;
```
FormControlName); return FormControlName; }

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 */

export { }

/**
 * @description
 * Provider which adds the `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 * A directive that adds the `required` validator to checkbox controls marked with the
 * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * A Directive that adds the `required` validator to any controls marked with the
 * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.

/**
 * @description
 * A Directive that adds the `required` validator to any controls marked with the
 * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 * A directive that adds the `required` validator to checkbox controls marked with the
 * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.

```typescript
require('angular-forms');

class RequiredValidator {
    constructor() {
        // Constructor code here
    }

    // Method to check if the control is required
    validate(control) {
        return this.required ? Validators.required(control) : null;
    }

    // Method to set the required attribute
    registerOnValidatorChange(fn) {
        this.onChange = fn;
    }
}

// Registering the required validator
ngModule('
'.required = true;

class CheckboxRequiredValidator {
    constructor() {
        // Constructor code here
    }

    // Method to check if the checkbox is required
    validate(control) {
        return this.required ? Validators.requiredTrue(control) : null;
    }
}

// Registering the checkbox required validator
ngModule('
'.required = true;

```
'EmailValidator' to the `NG_VALIDATORS` multi-provider list.

```javascript
Object.defineProperty(EmailValidator.prototype, "email", { name: 'email', type: String, set: function(value) {
  this._enabled = value === '' || value === true || value === 'true';
  if (this._onChange)
    this._onChange();
}, enumerable: true, configurable: true
});
```

Tracks changes to the email attribute bound to this directive.

```javascript
@description
* Method that validates whether an email address is valid.
* Returns the validation result if enabled, otherwise null.

```html
This shows how to add an email validator to an input attached to an ngModel binding.

```html
```

@publicApi
@ngModule FormsModule
@ngModule ReactiveFormsModule
```html

MinLengthValidator = /** @class */ (function () {
    function MinLengthValidator() {
    }

    /**
     * @description
     * Method that validates whether the value meets a minimum length requirement. Returns the validation result if enabled, otherwise null.
     *
     * @param fn The callback function
     */
    MinLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };

    `html
    this._createValidator();
    if (this._onChange)
    this._onChange();
  };

  /**
   * @description
   * Method that validates whether the value meets a minimum length requirement. Returns the validation result if enabled, otherwise null.
   */
  MinLengthValidator.prototype.validate = function (control) {
    return this.minlength == null ? null : Validators.minLength(typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
  };

  `html
  MinLengthValidator = __decorate([], MinLengthValidator);
```

`html

```
core.Directive({
    selector:
    '[minlength][formControlName],[minlength][formControl],[minlength][ngModel],
    [MIN_LENGTH_VALIDATOR],
    host: { '[attr.minlength]': 'minlength ? minlength : null ' }
    });

MinLengthValidator.prototype.return MinLengthValidator; */ **in * @description
* Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.

**
in var MAX_LENGTH_VALIDATOR = { *provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return MaxLengthValidator; }); } * multi: true; } * */ **in * A directive that adds max length validation to controls marked with the `maxLength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.

**
in * @usageNotes
* A lifecycle method called when the directive's inputs change. For internal use only.

**
in * @param changes A object of key/value pairs for the set of changed inputs.

**
in MaxLengthValidator.prototype.ngOnChanges = function (changes) { *in if (maxLength in changes) { *in this._createValidator();
    if (this._onChange) *
in /*
    */ **
in * @description
* Method that validates whether the value exceeds * the maximum length requirement.

**
in MaxLengthValidator.prototype.validate = function (control) { *return this.maxlength != null ? this._validator(control) : null; }

**
in * @description
* A lifecycle method called when the validator inputs change.

**
in * @param fn The callback function

**
in MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) { *this._validator = Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));

**
in __decorate([
    core.Input(),
    __metadata("design:type", Object)
],
MaxLengthValidator.prototype._createValidator = function () {
    this._validator = Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
}

**
in * @description
* Method that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value.

**
in The directive is provided with the `NG_VALIDATORS` multi-provider list.

**
in * @usageNotes
* A lifecycle method called when the directive's inputs change. For internal use only.

**
in * @param changes A object of key/value pairs for the set of changed inputs.

**
in PatternValidator.prototype.ngOnChanges = function (changes) { *in if (pattern in changes) { *in this._createValidator();
    if (this._onChange) *
in /*
    */ **
in * @description
* A lifecycle method called when the directive's inputs change. For internal use only.

**
in * @param changes A object of key/value pairs for the set of changed inputs.

**
in PatternValidator.prototype.validate = function (control) { *return this._validator(control); }

**
in * @description
* Registers a callback function to call when the

---

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validator inputs change

```javascript
PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
```

```javascript
PatternValidator.prototype._createValidator = function () { this._validator = Validators.pattern(this.pattern); };
```

```javascript
__decorate(
    [core.Input(),
    __metadata("design:type", Object)
], PatternValidator.prototype,
"pattern", void 0);
```

```javascript
PatternValidator = __decorate(
    [core.Directive({
        selector:
            '
                [pattern][formControlName],
              [pattern][formControl]
            ',
        providers: [PATTERN_VALIDATOR]
    })
], PatternValidator);
```

```javascript
var INTERNALFormsSharedModule = /** @class */ (function () {
    function INTERNALFormsSharedModule() {
    }
    INTERNALFormsSharedModule = __decorate(
        [core.NgModule({
            declarations: SHARED_FORM_DIRECTIVES,
            exports: SHARED_FORM_DIRECTIVES,
        })
    ], INTERNALFormsSharedModule);
    return INTERNALFormsSharedModule;
}
```

```javascript
function isAbstractControlOptions(options) {
    return
```

```javascript
```
asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;\n
}\n
}\n
return new FormGroup(controls, { asyncValidators: asyncValidators, updateOn: updateOn, validators: validators
});\n
};\n
/**\n
* @description\n
* Construct a new `FormControl` with the given state, validators
and options.\n
*\n
* @param formState Initializes the control with an initial state value, or\n
* with
an object that contains both a value and a disabled status.\n
*\n
* @param validatorOrOpts A synchronous
validator function, or an array of\n
* such functions, or an `AbstractControlOptions` object that contains\n
* validation functions and a validation trigger.\n
*\n
* @param asyncValidator A single async validator or
array of async validator\n
* functions.\n
*\n
* @usageNotes\n
*\n
* ### Initialize a control
as disabled\n
*\n
* The following example returns a control with an initial value in a disabled state.\n
*\n
* <code-example path=\"forms/ts/formBuilder/form_builder_example.ts\" region=\"disabled-control\">\n
* </code-example>\n
*/\n
FormBuilder.prototype.control = function (formState, validatorOrOpts,
asyncValidator) {\n
return new FormControl(formState, validatorOrOpts, asyncValidator);\n
};\n
/**\n
* Constructs a new `FormArray` from the given array of configurations,\n
* validators and
options.\n
*\n
* @param controlsConfig An array of child controls or control configs. Each\n
* child
control is given an index when it is registered.\n
*\n
* @param validatorOrOpts A synchronous validator
function, or an array of\n
* such functions, or an `AbstractControlOptions` object that contains\n
*
validation functions and a validation trigger.\n
*\n
* @param asyncValidator A single async validator or
array of async validator\n
* functions.\n
*/\n
FormBuilder.prototype.array = function (controlsConfig,
validatorOrOpts, asyncValidator) {\n
var _this = this;\n
var controls = controlsConfig.map(function (c)
{ return _this._createControl(c); });\n
return new FormArray(controls, validatorOrOpts, asyncValidator);\n
};\n
/** @internal */\n
FormBuilder.prototype._reduceControls = function (controlsConfig) {\n
var
_this = this;\n
var controls = {};\n
Object.keys(controlsConfig).forEach(function (controlName) {\n
controls[controlName] = _this._createControl(controlsConfig[controlName]);\n
});\n
return
controls;\n
};\n
/** @internal */\n
FormBuilder.prototype._createControl = function (controlConfig)
{\n
if (controlConfig instanceof FormControl || controlConfig instanceof FormGroup ||\n
controlConfig instanceof FormArray) {\n
return controlConfig;\n
}\n
else if
(Array.isArray(controlConfig)) {\n
var value = controlConfig[0];\n
var validator =
controlConfig.length > 1 ? controlConfig[1] : null;\n
var asyncValidator = controlConfig.length > 2 ?
controlConfig[2] : null;\n
return this.control(value, validator, asyncValidator);\n
}\n
else {\n
return this.control(controlConfig);\n
}\n
};\n
FormBuilder = __decorate([\n
core.Injectable()\n
], FormBuilder);\n
return FormBuilder;\n }());\n\n /**\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style
license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n /**\n * @publicApi\n
*/\n var VERSION = new core.Version('9.0.7');\n\n /**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n */\n /**\n * Exports the required providers and directives
for template-driven forms,\n * making them available for import by NgModules that import this module.\n *\n
* @see [Forms Guide](/guide/forms)\n *\n * @publicApi\n */\n var FormsModule = /** @class */
(function () {\n
function FormsModule() {\n
}\n
FormsModule = __decorate([\n
core.NgModule({\n
declarations: TEMPLATE_DRIVEN_DIRECTIVES,\n
providers:
[RadioControlRegistry],\n
exports: [InternalFormsSharedModule,
TEMPLATE_DRIVEN_DIRECTIVES]\n
})\n
], FormsModule);\n
return FormsModule;\n }());\n
/**\n * Exports the required infrastructure and directives for reactive forms,\n * making them available for
import by NgModules that import this module.\n * @see [Forms](guide/reactive-forms)\n *\n * @see
[Reactive Forms Guide](/guide/reactive-forms)\n *\n * @publicApi\n */\n var ReactiveFormsModule = /**
@class */ (function () {\n
function ReactiveFormsModule() {\n
}\n
ReactiveFormsModule_1 =
ReactiveFormsModule;\n
/**\n
* @description\n
* Provides options for configuring the reactive
forms module.\n
*\n
* @param opts An object of configuration options\n
**

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`warnOnNgModelWithFormControl` Configures when to emit a warning when an `ngModel` binding is used with reactive form directives.

```javascript
ReactiveFormsModule.withConfig = function (opts) {
  return {
    ngModule: ReactiveFormsModule, 
    providers: [[
      provide:
        NG_MODEL_WITH_FORM_CONTROL_WARNING, 
        useValue: 
        opts.warnOnNgModelWithFormControl, 
    ]]
  }
  var ReactiveFormsModule_1;
  ReactiveFormsModule = ReactiveFormsModule_1 = __decorate([
    core.NgModule({
      declarations: [REACTIVE_DRIVEN_DIRECTIVES],
      providers: [FormBuilder, 
        RadioControlRegistry],
      exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
    }], ReactiveFormsModule_1);
  return ReactiveFormsModule;
};
```

---

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* Use of this source code is governed by an MIT-style license that can be
* found in the LICENSE file at https://angular.io/license
* Copyright Google Inc. All Rights Reserved.
* Use of this source code is governed by an MIT-style license that can be
* found in the LICENSE file at https://angular.io/license
* Copyright Google Inc. All Rights Reserved.
* Use of this source code is governed by an MIT-style license that can be
* found in the LICENSE file at https://angular.io/license`
```javascript

Object.defineProperty(exports, '__esModule', { value: true });

})

//

sourceMappingURL=forms.umd.js.map
```

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

"version":3,"file":"forms.js","sources":[
"../../../../../../packages/forms/src/directives/control_value_accessor.ts","./.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.min.js.map

No license file was found, but licenses were detected in source scan.
import {InjectionToken} from '@angular/core';

/**
 * @description
 * Defines an interface that acts as a bridge between the Angular forms API and a native element in the DOM.
 * Implement this interface to create a custom form control directive that integrates with Angular forms.
 * This method is called by the forms API to write to the view when programmatic changes from model to view are requested.
 * The following example writes a value to the native DOM element.
 * When implementing the `registerOnChange` method in your own value accessor, save the given function so your class calls it at the appropriate time.
 * The following example stores the provided function as an internal method.
 * The following example stores the function provided as an internal method.
 * The value changes in the UI, call the registered function to allow the forms API to update itself.
 * When implementing `registerOnTouched` in your own value accessor, save the given function so your class calls it when the control should be considered blurred or "touched".
 * On blur (or equivalent), your class should call the registered function to allow the forms API to update itself.
 * The following example stores the provided function as an internal method.
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 * The following example stores the provided function as an internal method.
 * The following example stores the function provided as an internal method.
 * The following example stores the provided function as an internal method.
 * On blur (or equivalent), your class should call the registered function to allow the forms API to update itself.
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 * The following example stores the provided function as an internal method.
 * The following example stores the provided function as an internal method.
the control. If the control is not present, null is returned.

```typescript
* `this.control` if present, null otherwise.

```typescript
* Returns observable of value changes for the control that emits every time the
* value of the control changes in the UI or programmatically.

```typescript
* If the control is not present, null is returned.

```typescript
* `this.control.valueChanges` if present, null otherwise.

```typescript
* Returns a multicasting observable of value changes for the control that emits every time the
* value of the control changes in the UI or programmatically.

```typescript
* If the control is not present, null is returned.
```
array of synchronous validators for the control\n */\n * @internal\n */\n _rawValidators:
Array<Validator|ValidatorFn> = [];\n/**\n * The registered synchronous validator function for the control\n */\n * @throws An exception that this method is not implemented\n */\n get validator(): ValidatorFn|null { return <ValidatorFn>unimplemented(); }\n/**\n * @description\n * The registered async validator function for the control\n */\n * @throws An exception that this method is not implemented\n */\n get asyncValidator(): AsyncValidatorFn|null { return <AsyncValidatorFn>unimplemented(); }\n/**\n * @description\n * The callback method to update the model from the view when requested\n */\n abstract viewToModelUpdate(newValue: any): void;
useExisting: CustomValidatorDirective, multi: true})

```

* ```

```

openClass
```

@publicApi
```

```

const emailRegexp = /^[a-zA-Z0-9!#$%&'*+/=?^_`{|}~\-]+(?:\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~\-]+)*@[a-zA-Z0-9\-]+(?:\.[a-zA-Z0-9\-]+)*$/;

```

```

```

```
return isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null; } ||
} */

Validate that the field is non-empty

```typescript
const control = new FormControl('', Validators.required);
```

### Validate that the field value is true

```typescript
const control = new FormControl('true', Validators.required);
```

### Validate that the field is non-empty

```typescript
const control = new FormControl('', Validators.required);
```

### Validate that the field value pass an email validation test

```typescript
const control = new FormControl('example@domain.com', Validators.email);
```

### Validate that the field has a minimum of 3 characters

```typescript
const control = new FormControl('abc', Validators.minLength(3));
```

### Validate that the field has a maximum of 5 characters

```typescript
const control = new FormControl('abcde', Validators.maxLength(5));
```

### Validate that the field matches a valid email pattern

```typescript
const control = new FormControl('example@domain.com', Validators.email);
```

### Validate that the field has a minimum of 3 characters

```typescript
const control = new FormControl('abc', Validators.minLength(3));
```

### Validate that the field has a maximum of 5 characters

```typescript
const control = new FormControl('abcde', Validators.maxLength(5));
```

### Validate that the field matches a valid email pattern

```typescript
const control = new FormControl('example@domain.com', Validators.email);
```

### Validate that the field has a minimum of 3 characters

```typescript
const control = new FormControl('abc', Validators.minLength(3));
```

### Validate that the field has a maximum of 5 characters

```typescript
const control = new FormControl('abcde', Validators.maxLength(5));
```

### Validate that the field matches a valid email pattern

```typescript
const control = new FormControl('example@domain.com', Validators.email);
```
```typescript
import {AbstractControl} from '../model';
import {AsyncValidator, ValidationErrors | null) => {
    res = errors != null ? {...res !, ...errors} : res !;
  });

  return

  const control = new FormControl('1', Validators.pattern('[a-zA-Z \*]'));
  console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z \*]$'}}
}
```

```html
<p>\[\text{input pattern="[a-zA-Z]\*" name="\text{\textit{pattern}}" value="1"="\text{\textit{value}}"\]"\]}<br />
</p>
```
```javascript
import {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';

export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**
 * @description
 * Class used by Angular to track radio buttons. For internal use only.
 */
@Injectable()
export class RadioControlRegistry {
  private _accessors: any[] = [];

  /**
   * @description
   * Adds a control to the internal registry. For internal use only.
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  /**
   * @description
   * Removes a control from the internal registry. For internal use only.
   */
  remove(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i,
```
/**
   * @description
   * Selects a radio button. For internal use only.
   */
  select(accessor: RadioControlValueAccessor) {
    this._accessors.forEach((c) => {
      if (this._isSameGroup(c, accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
      }
    });
  }

  private _isSameGroup(
      controlPair: [NgControl, RadioControlValueAccessor],
      accessor: RadioControlValueAccessor): boolean {
    if (!controlPair[0].control) return false;
    return controlPair[0].parent === accessor._control._parent &&
        controlPair[1].name === accessor.name;
  }
}

/**
 * @description
 * The `ControlValueAccessor` for writing radio control values and listening to radio control
 * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 *
 * @usageNotes
 *
 * ### Using radio buttons with reactive form
 *
 * When using radio buttons in a reactive form, radio buttons in the same group should have the same `formControlName`.
 * Providing a `name` attribute is optional.
 *
 * @example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'
 */
@Directive({
  selector:
    'input[type=radio][formControlName],input[type=radio][formControl]
    ,input[type=radio][ngModel]',
  host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor,
    OnDestroy, OnInit {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _state !: boolean;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _control !: NgControl;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _fn !: Function;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = () => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Tracks the name of the radio input element.
   */
  // TODO(issue/24571): remove '!'.
  @Input() name !: string;

  /**
   * @description
   * Tracks the name of the `FormControl` bound to the directive. The name corresponds to a
   * key in the parent `FormGroup` or `FormArray`.
   */
  // TODO(issue/24571): remove '!'.
  @Input()
  formControlName !: string;

  /**
   * @description
   * Tracks the value of the radio input element
   */
  @Input() value: any;

  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {}

  /**
   * @description
   * Lifecycle method called when the directive is initialized. For internal use only.
   */
  ngOnInit(): void {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
  }

  /**
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    this._registry.remove(this);
  }

  /**
   * Sets the "checked" property value on the radio input element.
   */
  writeValue(value: any): void {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked',
        this._state);
  }

  /**
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: any) => {}): void {
    this._fn = fn;
    this.onChange = () => {
      fn(this.value);
      this._registry.select(this);
    };
  }

  /**
   * Sets the "value" on the radio input element and unchecks it.
   */
  registerOnTouched(fn: () => {}): void {
    this._fn = fn;
    this.onTouched = () => {};
  }

  private _checkName(): void {
    if (this.name && this.formControlName &&
        this.name !== this.formControlName) {
      this._throwNameError();
    }
    if (!this.name &&
        this.formControlName) this.name = this.formControlName;
  }

  private _throwNameError(): void {
    throw new Error(`
      If you define both a name and a formControlName attribute on your radio button, their values
      must match. Ex: <input type="radio" formControlName="food" name="food" value="">
    `);
  }
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const RANGE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RangeValueAccessor),
  multi: true
};

/**
 * @description
 * The `ControlValueAccessor` for writing a
 range value and listening to range input changes.
 * The value accessor is used by the `FormControlDirective`,
 'FormControlName', and 'NgModel'.

 Using a range input with a reactive form.

 The following example shows how to use a range input with a reactive form.

 ```ts
 const ageControl = new FormControl();
 ```

 ```
 <input type="range" [formControl]="ageControl">
 ```

 @ngModule ReactiveFormsModule
 @ngModule FormsModule

 ```

 ```
 import {FormErrorExamples as Examples} from './error_examples';

 export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent
       formGroup directive.  You'll want to add a formGroup
       directive and pass it an existing FormGroup instance

      Example:

      ${Examples.formControlName}`);
  }

  static ngModelGroupException(): void {
    throw new Error(`formControlName cannot be used with an
       FormControlParentException():

      Example:

      $(Examples.formControlName)}
    ```

 ```

 ```
 export const FormErrorExamples = {
  formControlName: `
    <div 
      formGroupName="person">
          <input formControlName="firstName">
       </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
       person: new FormControl()
    });

  formArrayName: `
    <div 
      formArrayName="cities">
          <div *ngFor="let city of cityArray.controls; index as i">
            <input [formControlName]="i">
          </div>
       </div>
    </div>

    In your class:

    this.cityArray = new FormArray([new
      FormControl('SF')]);
    this.myGroup = new FormGroup({
      cities: this.cityArray
    });

  ngModelGroup: `
    <form>
       <div 
        formGroupName="person">
          <input [(ngModel)]="person.name">
       </div>
       <input [(ngModel)]="{"name":"firstName"}">
       <input [(ngModel)]="{"showMoreControls" 
             [ngModelOptions]="{"standalone: true}"">">
    </form>

    In your class:

    this.person = new FormGroup({
      firstName: new FormControl() });

  ```

```
Open Source Used in MSX SD-WAN Service Pack 4.0.0

ngModelGroup parent. It is only compatible with parents that also have a "form" prefix: formGroupName, formArrayName, or formGroup.

Option 1: Update the parent to be formGroupName (reactive form strategy)

```javascript
${Examples.formGroupName}
```

Option 2: Use ngModel instead of formControlName (template-driven strategy)

```javascript
${Examples.ngModelGroup}
```

It is only compatible with parents that also have a "form" prefix: formGroupName, formArrayName, or formGroup.

Option 1: Update the parent to be formGroupName (reactive form strategy)

```javascript
${Examples.formGroupName}
```

Option 2: Use ngModel instead of formControlName (template-driven strategy)

```javascript
${Examples.ngModelGroup}
```

It looks like you're using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors.

```javascript

  /**
   * @license
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   *
   * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
   */

import {Directive, ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const SELECT_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectControlValueAccessor),
  multi: true
};

function _buildValueString(id: string | null, value: any): string {
  if (id == null) return `${value}`;
  if (value && typeof value === 'object') value = 'Object';
  return `${id}: ${value}`.slice(0, 50);
}

function _extractId(valueString: string): string {
  return valueString.split(':')[0];
}

/**
 * @description
 * The `ControlValueAccessor` for writing select control values and listening to select control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 *
 * @usageNotes
 *
 * ### Using select controls in a reactive form
 *
 * The following examples show how to use a select control in a reactive form:
 *
 * ```
 * {@example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component'}
 * ```
 *
 * ### Using select controls in a template-driven form
 *
 * To use a select in a template-driven form, simply add an `ngModel` and a `name` attribute to the main `<select>` tag.
 *
 * ```
 * {@example forms/ts/selectControl/select_control_example.ts region='Component'}
 * ```
 *
 * ### Customizing option selection
 *
 * Angular uses object identity to select option. It's possible for the identities of items in an array to change while the data does not. This can happen, for example, if the items are produced by an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.
 *
 * To customize the default option comparison algorithm, `<select>` supports `compareWith` input.
 *
 * ```
 * const selectedCountriesControl = new FormControl();
 * ```
 *
 * ```
 * <select [compareWith]='compareFn'>
 * ```
 *
 * **Note:** We
listen to the 'change' event because 'input' events aren't fired
* for selects in Firefox and IE:
https://bugzilla.mozilla.org/show_bug.cgi?id=1024350
* @ngModule ReactiveFormsModule
* @ngModule FormsModule
* @publicApi
* @Directive({
  selector:
'edit: [(multiple)], formControlName: select: (multiple)]
* formControl, select: (multiple)] [ngModel],

host: {'(change) ': 'onChange($event.target.value)', 'blur': 'onTouched()'},

providers:

[SELECT_VALUE_ACCESSOR]@export class SelectControlValueAccessor implements

ControlValueAccessor {

  value: any;
  /** @internal */  
  _optionMap: Map<string, any> = new Map<string, any>;
  /** @internal */  
  _idCounter: number = 0;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Tracks the option comparison algorithm for tracking
   * identities when
   * for checking changes.
   */
  @Input()
  set compareWith(fn: (o1: any, o2: any) => boolean)
  { throw new Error('compareWith must be a function, but received
   * $(JSON.stringify(fn))';
  }

  /**
   * Sets the "value" property on the input element. The "selectedIndex"
   * property is also set if an ID is
   * provided on the option element.
   */
  writeValue(value: any): void {
    this.value = value;
    const id: string = this._getOptionId(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
      this._renderer.setProperty(this._elementRef.nativeElement, 'value', _buildValueString(id, value));
    }
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
    this._renderer.writeValue(this._select.value);
  }

  /**
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (valueString: string) => {
      this.value = this._getOptionValue(valueString);
      fn(this.value);
    };
  }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => any): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled"
   * property on the select input element.
   */
  @Input()
  set disabled(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    this.writeValue(this._select.value);
  }

  /** @internal */
  _registerOption(): string {
    return (this._idCounter++).toString();
  }

  /** @internal */
  _getOptionId(value: any): string {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id), value)) return id;
    }
    return null;
  }

  /** @internal */
  _getOptionValue(valueString: string): any {
    const id: string = _extractId(valueString);
    return this._optionMap.get(id);
  }

  /**
   * @description
   * Sets the "value" property on the option element. The "selectedIndex"
   * property is also set if an ID is
   * provided on the option element.
   */
  writeValue(value: any): void {
    this.value = value;
    const id: string = this._getOptionId(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
      this._renderer.setProperty(this._elementRef.nativeElement, 'value', _buildValueString(id, value));
    }
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
    this._renderer.writeValue(this._select.value);
  }

  /**
   * @description
   * Marks `option` as dynamic, so Angular can be notified when options change
   */
  @Input()
  set disabled(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    this.writeValue(this._select.value);
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance
   * for internal only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      // TODO(issue/24571): remove '!'.
      this._select.writeValue(this._select.value);
    }
  }
}

/**
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 */
@Directive({selector: 'option'})
export class NgSelectOption implements OnDestroy {
  /**
   * ID of the option element
   */
  id !: string;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectControlValueAccessor) {
    if (this._select) this.id = this._select._registerOption();
  }

  /**
   * Tracks the value bound to the option element. Unlike the value binding,
   * ngValue supports
   * binding to objects.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select) this._select.writeValue(this._select.value);
  }

  /**
   * @description
   * Tracks simple string values bound to
   * for internal only.
   */
  @Input('value')
  set value(value: any) {
    this._setElementValue(value);
    if (this._select) this._select.writeValue(this._select.value);
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance
   * for internal only.
   */
  ngOnDestroy(): void {
    if (this._select) {
  }
```typescript
this._select._optionMap.delete(this.id);
this._select.writeValue(this._select.value);
}
}

/**
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 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Directive, ElementRef, Host, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, looseIdentical as _looseIdentical} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from 'angular2/core';

@Directive({
  selector: 'select[multiple][formControlName], select[multiple][formControl]
            , select[multiple][ngModel]',
  host: {'(change)': 'onChange($event.target)', '(blur)': 'onTouched()'},
  providers: [SELECT_MULTIPLE_VALUE_ACCESSOR]
})
export class SelectMultipleControlValueAccessor implements ControlValueAccessor {
  /**
   * The current value
   */
  value: any;

  /** @internal */
  _optionMap: Map<string, ɵNgSelectMultipleOption> = new Map<string, ɵNgSelectMultipleOption>();
  /** @internal */
  _idCounter: number = 0;

  /**
   * Registers a function called when a change event occurs on the input element.
   * @param fn The callback function
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (_: any) => {
      const selected: Array<any> = [];
      if (_.hasOwnProperty('selectedOptions')) {
        const options: HTMLCollection = _.selectedOptions;
        for (let i = 0; i < options.length; i++) {
          const opt: any = options.item(i);
          const val: any = this._getOptionValue(opt.value);
          selected.push(val);
        }
      }
      // Degrade on IE
      else {
        void (function() {
          const optSelected = opt;
          const optSelectedId = optSelected.id;
          const optVal = optSelected.value;
          const optSelectedOptionIds = this._optionMap.get(optSelectedId);
          const optSelectedOption = optSelectedOptionIds.values().next().value;
          const selectedOptionsIds = selected.map(val => this._getOptionId(val));
          const selectedOptionIds = this._getOptionIds(optSelectedOption);
          const selectedOptionIdsMinusSelectedOptionIds = selectedOptionIds.minus(selectedOptionIds);
          const selectedOptionsIdsMinusSelectedOptionIds = selectedOptionsId
```
const options: HTMLCollection = <HTMLCollection>_options;\nfor (let i = 0; i < options.length; i++) \n{\n  const opt: HTMLOption = options.item(i);\n  if (opt.selected) {\n    const val: any = \n      this._getOptionValue(opt.value);\n    selected.push(val);\n  }\n}\nfn(selected);\n}\n/** @description * Registers a function called when the control is touched. *\n@param fn The callback function.\n*\n* @param isDisabled The disabled value.\n*\nsetDisabledState(isDisabled: boolean): void {\n  this.renderer.setProperty(this.elementRef.nativeElement, 'disabled', isDisabled);\n}\n
fn(selected);
};

/**\n * @description\n * Registers a function called when the control is touched.\n *\n * @param fn\n */\nregisterOnTouched(fn: () => any): void { this.onTouched = fn;

/**\n * @description\n * Sets the `disabled` property on the select input element.\n *\n * @param isDisabled\n */\nsetDisabledState(isDisabled: boolean): void {\n  this.renderer.setProperty(this.elementRef.nativeElement, 'disabled', isDisabled);
}\n
/**\n * @description\n * Marks `<option>` as dynamic, so Angular can be notified when\n * options change.\n *\n * @see `SelectMultipleControlValueAccessor`
 *\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n@Directive({selector: 'option'})\nexport class ɵNgSelectMultipleOption implements OnDestroy {
  // TODO(issue/24571): remove `!`.\n  id!: string;
  /**\n   * @internal\n   */\n  _value: any;

  constructor(\n      private _element: ElementRef, private _renderer: Renderer2,\n      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) {
      this.id = this._select._registerOption(this);
    }
  }

  /**\n   * @description\n   * Tracks the value bound to the option\n   * element. Unlike the value binding,\n   * `ngValue` supports binding to objects.\n   */\n  @Input('ngValue')\n  set\n  ngValue(value: any) {
    if (this._select == null) return;
    this._value = value;
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**\n   * @description\n   * Tracks simple string values bound to the option element.\n   * For objects, use the\n   * `ngValue` input binding.\n   */\n  @Input('value')\n  set\n  value(value: any) {
    if (this._select) {
      this._value = value;
      this._setElementValue(_buildValueString(this.id, value));
      this._select.writeValue(this._select.value);
    } else {
      this._setElementValue(value);
    }
  }

  /**\n   * @internal\n   */\n  _setElementValue(value: string): void {\n    this._renderer.setProperty(this.element.nativeElement, 'value', value);
  }

  /**\n   * @internal\n   */\n  _setSelected(selected: boolean) {\n    this._renderer.setProperty(this.element.nativeElement, 'selected', selected);
  }

  /**\n   * @description\n   * Lifecycle method called before the directive's instance is destroyed.\n   * For internal use only.\n   */\n  ngOnDestroy(): void {\n    if (this._select) {
      this._select._optionMap.delete(this.id);
    }
  }

  export {ɵNgSelectMultipleOption as NgSelectMultipleOption};
}

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 * Use of this\n * source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n */\n
import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {FormArray, FormControl, FormGroup} from '../model';
import {Validators} from '../validators';
import {AbstractControlDirective} from './abstract_control_directive';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {CheckboxControlValueAccessor} from './checkbox_value_accessor';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {DefaultValueAccessor} from './default_value_accessor';
import {NormalizeAsyncValidator, NormalizeValidator} from './normalize_validator';
import {NumberValueAccessor} from './number_value_accessor';
import {RadioControlValueAccessor} from './radio_control_value_accessor';
import {RangeValueAccessor} from './range_value_accessor';
import {FormArrayName} from './reactive_directives/form_group_name';
import {ReactiveErrors} from './reactive_errors';
import {SelectControlValueAccessor} from './select_control_value_accessor';
import {SelectMultipleControlValueAccessor} from './select_multiple_control_value_accessor';
import {AsyncValidator,
BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, NumberValueAccessor, RangeValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();
  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange)
      dir.viewToModelUpdate(control._pendingValue);
    control._pendingChange = false;
  });
}

// TODO: vsavkin remove it once
https://github.com/angular/angular/issues/3011 is implemented
export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation period
export function _ngModelWarning(name: string, type: {_ngModelWarningSentOnce: boolean}, instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;

  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

/**
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 * that can be found in the LICENSE file at https://angular.io/license
 */

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
import {toObservable} from './validators';

/**
 * Reports that a FormControl is valid, meaning that no errors exist in the input value.
 * @see `status`
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 * @see `status`
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async validation is occurring and errors are not yet available for the input value.
 * @see `status`
 * @see `markAsPending`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled, meaning that the control is exempt from ancestor calculations of validity or value.
 * @see `status`
 * @see `markAsDisabled`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0)
    return null;

  // Not using Array.reduce here due to a Chrome 80 bug
  if (!control)
    return null;

  // remove after deprecation period
  control._syncPendingControls();
}

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[]) {
  if (validatorOrOpts)
    return ValidatorFn
  return function check(b: boolean) {
    return b;
  };
}


AbstractControlOptions | null): ValidatorFn

null (\n const validator =\n (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as AbstractControlOptions).validators : null) as ValidatorFn

ValidatorFn[ null];

return Array.isArray(validator) ? composeValidators(validator) : validator ||

null;\n\nfunction coerceToAsyncValidator(\n  asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn[ null] | AbstractControlOptions | null): AsyncValidatorFn

null (\n const origAsyncValidator =\n (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as AbstractControlOptions).asyncValidators : null) as AsyncValidatorFn

ValidatorFn[ null];

return Array.isArray(validator) ? composeAsyncValidators(validator) : validator ||

null;

function isOptionsObj(\n  validatorOrOpts?: ValidatorFn

| ValidatorFn[] | null): boolean {

return validatorOrOpts != null &&

!Array.isArray(validatorOrOpts) &&

typeof validatorOrOpts === 'object';

/**
 * This is the base class
 for 'FormControl', 'FormGroup', and 'FormArray'.
 *
 * It provides some of the shared behavior that all controls
 and groups of controls have, like * running validators, calculating status, and resetting state. It also defines the
 properties
 * that are shared between all sub-classes, like * value', * valid', and * dirty'. It shouldn't be * instantiated directly.
 * @see [Forms Guide](/guide/forms)
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @see [Dynamic Forms Guide](/guide/dynamic-form)
 *
 * @publicApi
 */
export abstract class
 AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty !: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched !: boolean;

  /** @internal */

  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn !:

  FormHooks;

  // TODO(issue/24571): remove '!'.

  private _parent !: FormGroup | FormArray;

  /**
   * The current value of the control.
   *
   * * For a `FormControl`,
   * the current value.
   * * For an enabled `FormGroup`, the values of enabled controls as an object
   * with a key-
   * value pair for each member of the group.
   * * For a disabled `FormGroup`, the values of all controls as an object
   * with a key-
   * value pair for each member of the group.
   * * For a `FormArray`, the values of enabled controls as
   * an array.
   *
   */
  public readonly value: any;

  /**
   * Initialize the AbstractControl instance.
   *
   *
   * @param validator The function that determines the synchronous validity of this control.
   * @param asyncValidator The function that determines the asynchronous validity of this control.
   */

  constructor(public validator: ValidatorFn, public asyncValidator: AsyncValidatorFn) {}
control is 'disabled' when its 'status' is 'DISABLED'. In disabled controls are exempt from validation checks and are not included in the aggregate value of their ancestor controls. A control is 'enabled' as long as its 'status' is not 'DISABLED'.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

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* and recalculates the ‘touched’ status of all parent controls.

```typescript
markAsUntouched(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = false;

    this._forEachChild((control: AbstractControl) => {
        control.markAsUntouched({onlySelf: true}); });

    if (this._parent && && opts.onlySelf) {
        this._parent._updateTouched(opts); }
}

markAsDirty(opts: {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = false;

    if (this._parent && && !opts.onlySelf) {
        this._parent.markAsDirty(opts); }

    this._pendingDirty = false;

    this._forEachChild((control: AbstractControl) => {
        control.markAsPristine({onlySelf: true}); });

    if (this._parent && && !opts.onlySelf) {
        this._parent._updatePristine(opts); }
}

markAsPristine(opts: {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = true;

    this._pendingDirty = false;

    this._forEachChild((control: AbstractControl) => {
        control.markAsPristine({onlySelf: true}); });

    if (this._parent && && !opts.onlySelf) {
        this._parent._updatePristine(opts); }
}

markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    (this as{status: string}).status = PENDING;

    if (opts.emitEvent !== false) {
        (this.valueChanges as
```
Open Source Used In MSX SD-WAN Service Pack 4.0.0

```typescript
/** @internal */
_isBoxedValue(formState: any): boolean {
  return typeof formState === 'object' && formState !== null &&
  Object.keys(formState).length === 2 && 'value' in formState &&
  'disabled' in formState;
}

/** @internal */
registerOnCollectionChange(fn: () => void): void {
  this._onCollectionChange = fn;
}

/** @internal */
_setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]): void {
  if (isOptionsObj(opts) && (opts as AbstractControlOptions).updateOn != null) {
    this._updateOn = (opts as AbstractControlOptions).updateOn !;
  }
}

/**
 * Check to see if parent has been marked artificially dirty.
 * @internal
 */
_parentMarkedDirty(onlySelf?: boolean): boolean {
  return !onlySelf && this._parent && this._parent.dirty &&
  !this._parent._anyControlsDirty();
}

/**
 * Creates a new `FormControl` instance.
 *
 * @param formState Initializes the control with an initial value,
 * or an object
 * that defines the initial value and disabled state.
 * @param validatorOrOpts A synchronous validator function,
 * or an array of
 * such functions, or an `AbstractControlOptions` object that contains validation functions
 * and a
 * validation trigger.
 * @param asyncValidator A single async validator or array of async validator functions
 */
constructor(
    formState: any = null,
    validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
    asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
  super( coerceToValidator(validatorOrOpts),
  coerceToAsyncValidator(asyncValidator, validatorOrOps));
  this._applyFormState(formState);
  this._initObservables();
  this._setUpdateStrategy(validatorOrOps);
  this.updateValueAndValidity({onlySelf: true, emitEvent: false});
  this._onCollectionChange();
}
```

- `FormControl` class implements most of the base functionality for accessing the value, validation status, user interactions and events.
- The following example initializes the control using an options object.
- The `FormControl` class can be used with various options to control when updates occur.
- The `reset` method allows resetting the control back to an initial value or a specific state.
- The `validatorOrOps` parameter can be an array of validators.
- The `asyncValidator` parameter can be a single async validator or an array of async validators.

---

### Initializing Form Controls

#### Instantiating a `FormControl`

```ts
const control = new FormControl('some value');
console.log(control.value); // 'some value'
```

#### Initializing with a form state object

```ts
const control = new FormControl({ value: 'n/a', disabled: true });
console.log(control.value); // 'n/a'
console.log(control.status); // 'DISABLED'
```

#### Initializing with a sync validator

```ts
const control = new FormControl('', Validators.required);
console.log(control.value); // ''
console.log(control.status); // 'INVALID'
```

#### Initializing with an options object

```ts
const control = new FormControl('', {
  validators: Validators.required,
  asyncValidators: myAsyncValidator
});
```

#### Resetting to a specific form state

```ts
control.reset('Drew');
```

#### Resetting to an initial value and disabled state

```ts
control.reset({ value: 'Drew', disabled: true });
```

---

### Validation Notes

- **Validation**

  - A synchronous validator function.
  - An array of synchronous validators.
  - An `AbstractControlOptions` object that contains validation functions and a validation trigger.

- **Async Validator**

  - A single async validator.
  - An array of async validators.

---

### Usage Notes

- **Initializing Form Controls**

  - With an initial value or a form state object.
  - Using a sync validator or array of validators.
  - Using an options object.

- **Configuring Update On Event**

  - Setting `updateOn` option to `'blur'` for blur event.
  - Setting `updateOn` option to `'submit'` for submit event.

- **Resetting to Initial Value**

  - Using `reset` method to reset to initial value or a specific state.

---

### constructor

- Sets the form state.
- Emits events when the value changes.
- Configuration options are passed to the function.
AbstractControl#updateValueAndValidity

* updateValueAndValidity()} method.

* `onlySelf`: When true, each change only affects this control, and not its parent. Default is
false. `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.

* When false, no events are emitted.

* `emitModelToViewChange`: When true or not supplied (the default), each change triggers an `onChange` event to update the view.

* `emitViewToModelChange`: When true or not supplied (the default), the view triggers an `ngModelChange` event to update the model.

* `setValue(value: any, options: {onlySelf?: boolean, emitEvent?: boolean, emitModelToViewChange?: boolean, emitViewToModelChange?: boolean} = {}): void {
  (this as {value: any}).value = this._pendingValue = value;
  if (this._onChange.length && options.emitModelToViewChange !== false) {
    this._onChange.forEach(changeFn => changeFn(this.value, options.emitViewToModelChange !== false));
    this.updateValueAndValidity(options);
  }

  setValue(value: any, options: {
    onlySelf?: boolean,
    emitEvent?: boolean,
    emitModelToViewChange?: boolean,
    emitViewToModelChange?: boolean
  } = {}): void {
    (this as {value: any}).value = this._pendingValue = value;
    if (this._onChange.length && options.emitModelToViewChange !== false) {
      this._onChange.forEach(changeFn => changeFn(this.value, options.emitViewToModelChange !== false));
    }
    this.updateValueAndValidity(options);
  }

  */
  setValue(value: any,
  options: {
    onlySelf?: boolean,
    emitEvent?: boolean,
    emitModelToViewChange?: boolean,
    emitViewToModelChange?: boolean
  } = {}): void {
    (this as{value: any}).value = this._pendingValue = value;
    if (this._onChange.length && options.emitModelToViewChange !== false) {
      this._onChange.forEach(
          (changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));
    }
    this.updateValueAndValidity(options);
  }

  /**
   * Patches the value of a control.
   *
   *
   * This function is functionally the same as {@link FormControl#setValue setValue} at this level.
   * It exists for symmetry with {@link FormGroup#patchValue patchValue} on 'FormGroups' and
   * 'FormArrays', where it does behave differently.
   *
   * @see `setValue` for options
   */
  patchValue(value: any, options: {
    onlySelf?: boolean,
    emitEvent?: boolean,
    emitModelToViewChange?: boolean,
    emitViewToModelChange?: boolean
  } = {}): void {
    this.setValue(value, options);
  }

  /**
   * Resets
   * the form control, marking it 'pristine' and 'untouched', and setting
   * the value to null.
   *
   */
  reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._applyFormState(formState);
    this.markAsPristine(options);
    this.markAsUntouched(options);
    this.setValue(this.value, options);
    this._pendingChange = false;
  }

  private _applyFormState(formState: any) {
    if (this._isBoxedValue(formState)) {
      (this as{value: any}).value = this._pendingValue = formState.value;
    } else {
      (this as{value: any}).value = this._pendingValue = formState;
    }
  }

  /**
   * Tracks the value and validity state of a group of `FormControl` instances.
   *
   * A `FormGroup` aggregates the values of each child `FormControl` into one object,
   * with each control name as the key. For example, if one of the controls in a group is
   * invalid, the entire `FormGroup` becomes invalid.
   *
   * `FormGroup` is one of the three fundamental building blocks used to define forms in Angular.
   */
  ...

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form = new FormGroup({
  'first': new FormControl('Nancy', Validators.minLength(2)),
  'last': new FormControl('Drew'),
});

console.log(form.value);  // {first: 'Nancy', last: 'Drew'}

console.log(form.status);  // 'VALID'

### Create a form group with a group-level validator

You include group-level validators as the second arg, or group-level async
* validators as the third arg. These come in handy when you want to perform validation
* that considers the value of more than one child control.

* const form = new FormGroup(
  { 'first': new FormControl(''),
    'last': new FormControl('', Validators.minLength(2)),
    'password': new FormControl('', Validators.minLength(2)),
    'passwordConfirm': new FormControl('', Validators.minLength(2)),
  },
  passwordMatchValidator
);

function passwordMatchValidator(g: FormGroup) {
  return g.get('password').value === g.get('passwordConfirm').value
    ? null : {'mismatch': true};
}

Like `FormControl`
instances, you choose to pass in
* validators and async validators as part of an options object.

* const form = new FormGroup(
  { 'password': new FormControl('', Validators.minLength(2)),
    'passwordConfirm': new FormControl('', Validators.minLength(2)),
  },
  passwordMatchValidator
);

function passwordMatchValidator(g: FormGroup) {
  return g.get('password').value === g.get('passwordConfirm').value
    ? null : {'mismatch': true};
}

* @param name The control name to register in the collection
* @param control Provides the control for the given name
* @param name The control name to add to the collection
* @param control Provides the control for the given name
* @param name The control name to get
* @param control Provides the control for the given name
* @param name The control name to add to the collection
* @param control Provides the control for the given name
* @param name The control name to get
* @param control Provides the control for the given name

Sets the value of the `FormGroup`. It accepts an object that matches the `FormGroup` with control names as keys. It accepts a function of the form:

```javascript
{ form: new FormGroup({}), first: new FormControl(), last: new FormControl() },
```

This function creates a new `FormGroup` with control names as keys and control objects as values. The `FormGroup` is an object that provides methods for adding, retrieving, and updating control values.

### Set the complete value for the form group

```javascript
const form = new FormGroup({
  first: new FormControl(),
  last: new FormControl()
});
console.log(form.value); // {first: null, last: null}

form.setValue({first: 'Nancy', last: 'Drew'});
console.log(form.value); // {first: 'Nancy', last: 'Drew'}
```

This function sets the value of the `FormGroup` to an object that matches the structure of the group. It accepts a configuration object that determines how the control propagates changes and emits events when the control value is updated.

### Patch the value for a form group

```javascript
const form = new FormGroup({
  first: new FormControl(),
  last: new FormControl()
});
form.patchValue({first: 'Nancy'});
```

This function patches the value of the `FormGroup` to update only the fields that have been set.

### Reset the form group

```javascript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
form.reset({first: 'Nancy', last: 'Drew'});
```

This function resets the `FormGroup` to an initial value or an object that defines the initial value and disabled state.
new FormArray([\n  new FormControl(), \n], {updateOn: 'blur'});\n
To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods in `FormArray` itself. These methods ensure the controls are properly tracked in the hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray` directly, as that result in strange and unexpected behavior such as broken change detection.

```typescript
```

### Adding or removing controls from a form array

To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods in `FormArray` itself. These methods ensure the controls are properly tracked in the hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray` directly, as that result in strange and unexpected behavior such as broken change detection.

```typescript
```
to the correct controls in the group.

It accepts both super-sets and sub-sets of the array without throwing an error.

```js
const arr = new FormArray([new FormControl(), new FormControl()]);
console.log(arr.value);  // [null, null]
arr.push(new FormControl());
console.log(arr.value);  // [null, null, FormControl]
```

It accepts both super-sets and sub-sets of the array without throwing an error.

```js
arr.push(new FormControl());
console.log(arr.value);  // [null, null, FormControl]
```

Options that determine how the control propagates changes and emits events after the value changes:

* `onlySelf`: When true, each change only affects this control, and not its parent. Default: false.
* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated. When false, no events are emitted.

The configuration options are passed to the `patchValue` method:

```js
arr.patchValue([null, null], {onlySelf: true, emitEvent: false});
```

### Patch the values for controls in a form array

```js
const arr = new FormArray([new FormControl(), new FormControl()]);
arr.patchValue([null, null]);
console.log(arr.value);  // [null, null]
```

### Reset the values in a form array

```js
arr.reset([null, null], {onlySelf: true, emitEvent: false});
```

### Reset the values in a form array and the disabled status for the first control

```js
arr.reset([{value: null, disabled: true}, null]);
```

### Reset the values in a form array and the disabled status for the first control

```js
arr.reset([{value: null, disabled: true}, null]);
```

The configuration options are passed to the `reset` method:

```js
arr.reset([null, null], {onlySelf: true, emitEvent: false});
```

### Remove all elements from a FormArray

```js
arr.clear();
```

### Remove all elements from a FormArray

```js
arr.clear();
```

### Remove all elements from a FormArray

```js
arr.clear();
```

### Remove all elements from a FormArray

```js
arr.clear();
```

### Remove all elements from a FormArray

```js
arr.clear();
```
are no form controls registered with this array yet. If you're using ngModel,

you may want to check next tick (e.g. use setTimeout).`\n`\n`if (this.at(index)) {`\n`throw new Error('Cannot find form control at index ${index}.');`\n`};\n`\n`}\n`\n`/** @internal */\n`\n`_forEachChild(cb: Function): void {`\n`\n`this.controls.forEach((control: AbstractControl, index: number) => { cb(control, index); });\n`\n`/** @internal */\n`\n`_updateValue(): void {`\n`\n`(this as{value: any}).value =\n`\n`this.controls.filter((control) => control.enabled && this.disabled).\n`\n`\n`.map((control) => control.value);`\n`\n`/** @internal */\n`\n`_allControlsDisabled(): boolean {`\n`\n`for (const control of this.controls) {`\n`if (control.enabled) return false;`\n`}\n`\n`\n`\n`return this.controls.length > 0 || this.disabled;`\n`}`\n`\n`/** @internal */\n`\n`private _registerControl(control: AbstractControl) {`\n`\n`control.setParent(this);\n`\n`control._registerOnCollectionChange(this._onCollectionChange);`\n`}`\n
```html
<form ngNativeValidate>
  ...
</form>
```
@publicApi

/**
 * @Directive({
   * selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',
   * providers: [formDirectiveProvider],
   * host: {'(submit)': 'onSubmit(Seven)', '(reset)': 'onReset()'},
   * outputs:
   * [ngSubmit],
   * exportAs: 'ngForm' } )
 */

@Directive({
  selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',
  providers: [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  outputs: [ngSubmit],
  exportAs: 'ngForm' }
)

export class NgForm extends ControlContainer implements Form,

AfterViewInit {
  /**
   * @description
   * Returns whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  private _directives: NgModel[] = [];

  /**
   * @description
   * Returns an array representing the path to this group. Because this directive
   * always
   * lives at the top level of a form, it is always an empty array.
   */
  get path(): string[] { return []; }

  /**
   * @description
   * Adds a new `NgModelGroup` directive instance to the form.
   *
   * @param dir The `NgModelGroup` directive instance.
   */
  addFormGroup(dir: NgModelGroup): void {
    this.controlGroup = new FormGroup({});
    setUpFormContainer(this.controlGroup, dir);
    this.formControls.push(dir); this.formcontrols.push(dir);
    dir.controlGroup = this.controlGroup;
    dir.controlGroup.updateValueAndValidity({emitEvent: false});
    this.controlGroup = dir.controlGroup;
    dir.controlGroup.updateValueAndValidity({emitEvent: false});
  }

  /**
   * @description
   * Removes the `NgModelGroup` directive instance from the form.
   *
   * @param dir The `NgModelGroup` directive instance.
   */
  removeFormGroup(dir: NgModelGroup): void {
    this.controlGroup.removeControl(dir.name);
    dir.controlGroup = null;
  }

  /**
   * @description
   * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.
   *
   * @param dir The `NgModelGroup` directive instance.
   */
  getFormGroup(dir: NgModelGroup): FormGroup { return this.controlGroup.get(dir.name); }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive instance.
   *
   * @param dir The `NgControl` directive instance.
   */
  updateModel(dir: NgControl, value: any): void {
    const ctrl = this.controlGroup.get(dir.name);
    if (ctrl)
      ctrl.setValue(value);
  }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive instance.
   *
   * @param dir The `NgControl` directive instance.
   */
  setValue(value: any): void {
  this.controlGroup.setValue(value);
}
Method called when the `\$submit\` event is triggered on the form. Triggers the `\$ngSubmit` emitter to emit the `\$submit\` event as its payload.

```typescript
/**
 * @description
 * Method called when the "submit" event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the "submit" event as its payload.
 *
 * @param $event The "submit" event object
 * @description
 * Resets the form to an initial value and resets its submitted status.
 * @param $event The new value for the form.
 * @enum From the FormControl object
 * @param value The form to an initial value and resets its submitted status.
 */
export function onSubmit($event: Event): boolean {
  (this as {submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this._directives);
  this.ngSubmit.emit($event);
  return false;
}

/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 */
export function onReset(): void {
  this.resetForm();
}

/**
 * @description
 * Resets the form to an initial value and resets its submitted status.
 * @param value The new value for the form.
 */
export function resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
}

/**
 * @description
 * The `FormGroup` bound to this directive.
 * @param options The top-level directive for this group if present, otherwise null.
 * @param name The path to this group from the parent directive.
 * @param controlDirective The path to this group from the top-level directive.
 */
export class AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group.
   *
   * @internal
   */
  _parent: ControlContainer;

  /**
   * @description
   * An array of synchronous validators for the group.
   *
   * @internal
   */
  _validators: any[];

  /**
   * @description
   * An array of async validators for the group.
   *
   * @internal
   */
  _asyncValidators: any[];

  /**
   * @description
   * The internal callback method triggered on the instance after the inputs are set.
   * Registers the group with its parent group.
   * @param value The new value for the form.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective.addFormGroup(this);
  }

  /**
   * @description
   * The internal callback method triggered before the instance is destroyed.
   * Removes the group from its parent group.
   * @param value The new value for the form.
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   * @param options The top-level directive for this group if present, otherwise null.
   * @param name The path to this group from the parent directive.
   */
  get control(): FormGroup {
    return this.formDirective.getFormGroup(this);
  }

  /**
   * @description
   * The path to this group from the top-level directive.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): FormName { return this.parent ? this.parent.formDirective : null; }

  /**
   * @description
   * The synchronous validators registered with this group.
   */
  get validator(): ValidatorFn { return composeValidators(this._validators); }

  /**
   * @description
   * The async validators registered with this group.
   */
  get asyncValidator(): AsyncValidatorFn { return composeAsyncValidators(this._asyncValidators); }

  //...
If `ngModel` is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in `ngModelOptions`. Example 1: `<input [(ngModel)]="person.firstName" name="first"` Example 2: `<input [(ngModel)]="person.firstName" [ngModelOptions]="{standalone: true}"`;

static modelGroupParentException() {
  throw new Error(`ngModelGroup cannot be used with a parent formGroup directive.

Option 1: Use formGroupName instead of ngModelGroup (reactive strategy);

Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy);

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import {Directive, Host, Inject, Input, OnDestroy, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

class NgModelGroup extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  constructor(@Host() @SkipSelf() parent: ControlContainer,
    @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[][],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[][]) {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  // TODO(issue/24571): remove '!'.
  @Input('ngModelGroup') name!: string;

  constructor(@Host() @SkipSelf() parent: ControlContainer,
    @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[][],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[][]) {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
    this._checkParentType(): void {
      if (!this._parent.instanceof NgModelGroup) && (!this._parent.instanceof NgForm) {
        TemplateDrivenErrors.modelGroupParentException();
        throw new Error(`
          ngModelGroup cannot be used with a parent formGroup directive.
          Option 1: Use formGroupName instead of ngModelGroup (reactive strategy);
          Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy);
          
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        `);
      }
    }

    // ...
expressions before the `input` that use the exported directive. 

To have an old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change.

Notes:

- this is just one extra run no matter how many `ngModel` have been changed.
- this is a general problem when using `exportAs` for directives.

Promises: create a `FormControl` instance from a domain model and binds it to a form control element.

- The `FormControl` instance tracks the value, user interaction, and validation status of the control and keeps the view synced with the model. If used within a parent form, the directive also registers itself with the form as a child. This directive is used by itself or as part of a larger form. Use the `*ngModel` selector to activate it. It accepts a domain model as an optional `Input`.

If you have a one-way binding to `ngModel` with `[[]]` syntax, changing the value of the domain model in the component class sets the value in the view. If you have a two-way binding with `[[]]` syntax, (also known as `banana-box syntax`), the value in the UI always syncs back to the domain model in your class.

To inspect the properties of the associated `FormControl` (like validity state), export the directive into a local template variable using `ngModel` as the key (ex: `#myVar="ngModel"`). You then access the control using the directive's `control` property, but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access.

- See a full list of properties directly available in `AbstractControlDirective`

Using `ngModel` on a standalone control:

- When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute so that the control can be registered with the parent form under that name.

In the context of a parent form, it's often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a local template variable using `ngForm` such as (`#f="ngForm"`). Use the variable where needed on form submission.

If you do need to populate initial values into your form, using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit.

The following example shows controls using `ngModel` within a form:

```
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
</form>
```

### Setting the `name` attribute through options

The following example shows an alternate way to set the `name` attribute. The `name` attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```
<my-person-control
  name="Nancy" ngModel
  [ngModelOptions]="\n  [name: 'user']">

  <input type="checkbox"> Show more options?
</my-person-control>
```

At runtime we coerce arbitrary values assigned to the `\disabled` input to a `boolean`. This is not reflected in the type of the property because outside of templates, consumers should only deal with booleans. In templates, a string is allowed for convenience and to match the native `disabled attribute` semantics which can be observed on input elements. This static member tells the compiler that values of type `string` can also be assigned to input in a template. static.

- The `@Input()` decorator marks a public readonly;`FormControl: new FormControl();` is a new FormControl

- At runtime we coerce arbitrary values assigned to the `\disabled` input to a `boolean`. This is not reflected in the type of the property because outside of templates, consumers should only deal with booleans. In templates, a string is allowed for convenience and to match the native `disabled attribute` semantics which can be observed on input elements. This static member tells the compiler that values of type `string` can also be assigned to input in a template.
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* @Input('disabled') isDisabled!: boolean;
* @Input('ngModel') model: any;
* @ngModelChange() viewToModelUpdate(newValue: any):
  void {
    this.viewModel = newValue;
  }

* This is used as a key in the event listener object passed to `eventTargetProxyNgModelChange()`. It maps to the `ngModelChange` event after the view model updates.

* This is used as a key in the event listener object passed to `eventTargetProxyNgModelChange()`. It maps to the `ngModelChange` event after the view model updates.

* This is used as a key in the event listener object passed to `eventTargetProxyNgModelChange()`. It maps to the `ngModelChange` event after the view model updates.

* This is used as a key in the event listener object passed to `eventTargetProxyNgModelChange()`. It maps to the `ngModelChange` event after the view model updates.
private _checkName(): void {
  if (this.options && this.options.name) this.name = this.options.name;

  if (!this._isStandalone() && !this.name) {
    TemplateDrivenErrors.missingNameException();
  }
}

private _updateValue(value: any): void {
  resolvedPromise.then(() => { this.control.setValue(value, {emitViewToModelChange: false}); });
}

private _updateDisabled(changes: SimpleChanges) {
  const disabledValue = changes['isDisabled'].currentValue;
  const isDisabled = disabledValue === '' || (disabledValue && disabledValue !== 'false');

  resolvedPromise.then(() => {
    if (isDisabled && !this.control.disabled) {
      this.control.disable();
    } else if (!isDisabled && this.control.disabled) {
      this.control.enable();
    }
  });
}

export {ɵNgNoValidate as NgNoValidate};
the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer the class removes the convenience of defining forms in the template. To upgrade your code before support is removed, you'll want to decide whether to stick with reactive form directives (and set/get values using reactive forms patterns) or switch over to template-driven directives. After (choice 1 - use reactive forms): 

```html
<input [formControl]="control">
```

```ts
this.control.setValue('some value');
```

After (choice 2 - use template-driven forms): 

```html
<input [(ngModel)]="value">
```

```ts
this.value = 'some value';
```

By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for `ReactiveFormsModule` at import time:

```ts
imports: [
  ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'}),
  // ...other imports...
];
```

Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `always`. This may help to track down where in the code the pattern is being used as the code is being updated.

```
* @NgModule
  @publicApi
* @Directive({selector: '[formControl]', providers: [formControlBinding], exportAs: 'ngForm'])
export class FormControlDirective extends NgControl implements OnChanges {
  /**
   * @description
   * Internal reference to the top-level form.
   */
  viewModel: any;

  /**
   * @description
   * Tracks the `FormControl` instance bound to the directive.
   */
  // TODO(issue/24571): remove '!'.
  @Input('formControl') form !: FormControl;

  /**
   * @description
   * Triggers a warning that this input should not be used with reactive forms.
   */
  @Input('disabled')
  set isDisabled(isDisabled: boolean) {
    ReactiveErrors.disabledAttrWarning();
  }

  // TODO(kara): remove next 4 properties once deprecation period is over

  /** @deprecated as of v6 */
  @Input('ngModel') model: any;

  /** @deprecated as of v6 */
  @Output('ngModelChange') update = new EventEmitter();

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use
   * only.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
      this.viewModel = this.model;
    }
  }

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use
   * only.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {
        this.valueAccessor!.setDisabledState(true);
      }
      this.form.updateValueAndValidity((event=false));
    }
  }

  (isPropertyUpdated(changed, this.viewModel)) { 
    // ...other updates...
  }

  // Returns an array that represents the path from the top-level form to this control.
  get path(): string[] { return []; }

  // Synchronous validator function composed of all the synchronous validators
  // registered with this directive.
  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  // Async validator function composed of all the async validators registered with this
  get asyncValidators(): AsyncValidatorFn[] { return composeValidators(this._rawValidators); }
```
asyncValidator(): AsyncValidatorFn|null

* The `FormControl` bound to this directive.

* @param newValue

* Sets the new value for the view model and emits an `ngModelChange` event.

* @function

* @returns void

* @param newValue

* The new value for the view model.

* @example

* this.viewModel = newValue;

* this.update.emit(newValue);

* @param changes

* @see [Reactive Forms Guide](guide/reactive-forms)

* @see [AbstractControl](guide/reactive-forms)

* @publicApi

* @ngModule

* `ReactiveFormsModule`

* Binds an existing `FormGroup` to a DOM element.

* This directive accepts an existing `FormGroup` instance. It will then use this * `FormGroup` instance to match any child `FormControl`, `FormGroup`, and `FormArray` instances to child `FormControlName`, `FormGroupName`, and `FormArrayName` directives.

* The following example registers a `FormGroup` with first name and last name controls.

* `@example
type SimpleFormGroupExampleComponent = 

* export class SimpleFormGroupExampleComponent {

*   constructor(private ngForm: FormGroupDirective) {

*     console.log('SimpleFormGroupExampleComponent: ', ngForm);

*     ngForm.addControl('firstName', new FormControl('John', Validators.required));

*     ngForm.addControl('lastName', new FormControl('Doe', Validators.required));

*   }

* @publicApi

* @ngModule

* `ReactiveFormsModule`

* Reports whether the form submission has been triggered.

* Submitted: boolean = false;

* &:submit() { this._isControlChanged({form: true}); }

* `@ngModule

* `ReactiveFormsModule`

* A lifecycle method called when the directive's inputs change. For internal use only.

* @param changes

* @see [Reactive Forms Guide](guide/reactive-forms)

* @see [AbstractControl](guide/reactive-forms)

* @publicApi

* @ngModule

* `ReactiveFormsModule`
this.directives.push(dir);
return ctrl;
}/**
 * @description
 * Retrieves the `FormControl` instance from the provided `FormControlName` directive.
 * @param dir The `FormControlName` directive instance.
 */
* getControl(dir: FormControlName): FormControl {
  return this.form.get(dir.path);
}

/**
 * @description
 * Removes the `FormControlName` instance from the internal list of directives.
 * @param dir The `FormControlName` directive instance.
 */
* removeControl(dir: FormControlName): void {
  removeDir<FormControlName>(this.directives, dir);
}

/**
 * @description
 * Adds a new `FormName` directive instance to the form.
 * @param dir The `FormName` directive instance.
 */
* addFormGroup(dir: FormGroupName): void {
  const ctrl = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  ctrl.updateValueAndValidity({emitEvent: false});
}

/**
 * @description
 * Removes the `FormName` directive instance from the internal list of directives.
 * @param dir The `FormName` directive instance.
 */
* removeFormGroup(dir: FormGroupName): void {
  removeDir<FormGroupName>(this.directives, dir);
}

/**
 * @description
 * Retrieves the `FormGroup` for a provided `FormGroupName` directive instance.
 * @param dir The `FormGroupName` directive instance.
 */
* getFormGroup(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

/**
 * @description
 * Adds a new `FormArrayName` directive instance to the form.
 * @param dir The `FormArrayName` directive instance.
 */
* addFormArray(dir: FormArrayName): void {
  const ctrl = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  ctrl.updateValueAndValidity({emitEvent: false});
}

/**
 * @description
 * Removes the `FormArrayName` directive instance from the internal list of directives.
 * @param dir The `FormArrayName` directive instance.
 */
* removeFormArray(dir: FormArrayName): void {
}

/**
 * @description
 * Retrieves the `FormArray` for a provided `FormArrayName` directive instance.
 * @param dir The `FormArrayName` directive instance.
 */
* getFormArray(dir: FormArrayName): FormArray {
  return <FormArray>this.form.get(dir.path);
}

/**
 * @description
 * Sets the new value for the provided `FormControlName` directive.
 * @param dir The `FormControlName` directive instance.
 * @param value The new value for the directive's control.
 */
* updateModel(dir: FormControlName, value: any): void {
  const ctrl = this.form.get(dir.path);
  ctrl.setValue(value);
}

/**
 * @description
 * Method called with the "submit" event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the "submit" event as its payload.
 * @param $event The "submit" event object
 */
* onSubmit($event: Event): boolean {
  (this as{submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this.directives);
  this.ngSubmit.emit($event);
  return false;
}

/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 */
* onReset(): void {
  this.resetForm();
}

/**
 * @description
 * Resets the form to an initial value and resets its submitted status.
 * @param value The new value for the form.
 */
* resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as{submitted: boolean}).submitted = false;
}

/** @internal */
* _updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as{control: FormControl}).control = newCtrl;
    }
  });
  this.form._updateTreeValidity({emitEvent: false});
}

* _updateRegistrations() {
  this.form._registerOnCollectionChange(() => this._updateDomValue());
  if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
  this._oldForm = this.form;
}

* _updateValidators() {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator, sync]);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator, sync]);

* _checkFormPresent() {
  if (!this.form) {
    ReactiveErrors.missingFormException();
  }
}

/**
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 */

import {Directive, Host, Inject, Input, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';
import {FormArray} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ReactiveErrors} from '../reactive_errors';
import {composeAsyncValidators,
import composeValidators, {AsyncValidatorFn, ValidatorFn} from './validators';
import {FormGroupDirective} from '../form_group_directive';

export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 * This directive can only be used with a parent `FormGroupDirective`. It accepts the string name of the nested `FormGroup` to link, and looks for a `FormGroup` registered with that name in the parent. Use nested form groups to validate a sub-group of an form separately from the rest or to group the values of certain controls into their own nested object.
 *
 * @see [Reactive Forms Guide](guide/reactive-forms)
 *
 * @usageNotes
 *
 * ### Access the group by name
 *
 * The following example registers a nested `FormGroup` within an existing `FormGroup` and provides methods to retrieve the nested `FormGroup` and individual controls.
 *
 * ```ts
 * { @example forms/ts/nestedFormGroup/nested_form_group_example.ts region='Component'}
 * ```
 *
 * @ngModule
 * ReactiveFormsModule
 * @publicApi
 */
@Directive({selector: '[formGroupName]', providers: [formGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `FormGroup` bound to the directive. The name corresponds to a key in the parent `FormGroup` or `FormArray`. Accepts a name as a string or a number.
   * The name in the form of a string is useful for individual forms, while the numerical form allows for form groups to be bound to indices when iterating over groups in a `FormArray`.
   * TODO(issue/24571): remove `!`. @Input('formGroupName') name !: string | number | null;
   */
  // TODO(issue/24571): remove '!'.
  @Input('formGroupName') name !: string | number | null;

  constructor(
      @Optional() @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])
      { super();
        this._parent = parent;
        this._validators = validators;
        this._asyncValidators = asyncValidators;
    }

    /**
     * @description
     * A lifecycle method called when the directive's inputs are initialized. For internal use only.
     * @throws If the directive does not have a valid
     */
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```typescript
parent.

ngOnInit(): void {
  this._checkParentType();
  this.formDirective!.addFormArray(this);
}

ngOnDestroy(): void {
  if (this.formDirective) {
    this.formDirective.removeFormArray(this);
  }
}

/**
 * @description
 * A lifecycle method called before the directive's instance is destroyed. For internal
 * use only.
 */

/**
 * @description
 * The 'FormArray' bound to this directive.
 */

get control(): FormArray {
  return this.formDirective!.getFormArray(this);
}

/**
 * @description
 * Returns an array that represents the path from the top-level form to this.control.
 * Each index is the string name of the control on that level.
 */

get path(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
}

/**
 * @description
 * Synchronous validator function composed of all the synchronous validators registered with this.
 * Returns a boolean indicating whether the control is valid.
 */

get validator(): ValidatorFn | null {
  return composeValidators(this._validators);
}

/**
 * @description
 * Async validator function composed of all the async validators registered with this directive.
 */

get asyncValidator(): AsyncValidatorFn | null {
  return composeAsyncValidators(this._asyncValidators);
}

private _checkParentType(): void {
  if (_hasInvalidParent(this._parent)) {
    ReactiveErrors.arrayParentException();
  }
}

function _hasInvalidParent(parent: ControlContainer): boolean {
  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
  !(parent instanceof FormArrayName);
}
```

---

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```
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https://angular.io/license
*
import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy,
Optional, Output, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath,
isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';
```

---

### Register `FormControl` within a group

The following example shows how to register multiple form controls within a form group and set their value.

```html
<form [formGroup]='form'>
  <input formControlName='first' [(ngModel)]='value'>
</form>
```

```ts
this.value = 'some value';
```

This has been deprecated for a few reasons. First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like `delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion. In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend.
because it doesn’t take advantage of the full benefits of using either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template. To update your code before support is removed, you’ll want to decide whether to stick within reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives.

```html
<form [formGroup]="form">
  <input formControlName="first">
</form>
```

```ts
this.form.get('first').setValue('some value');
```

```
<input [(ngModel)]="value">
```

```ts
this.value = 'some value';
```
```typescript
/**
 * @description
 * Returns an array that represents the path from the top-level form to this control.
 * Each index is the string name of the control on that level.
 * @param {any} newValue - The new value.
 * @returns {any} - The new path.
 */
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.update.emit(newValue);
}

/**
 * @description
 * Returns an array that represents the path from the top-level form to this control.
 * Each index is the string name of the control on that level.
 * @returns {string[]} - The new path.
 */
get path(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
}

/**
 * @description
 * The top-level directive for this group if present, otherwise null.
 * @returns {any} - The new directive.
 */
get asyncValidator(): AsyncValidatorFn {
  return composeAsyncValidators(this._rawAsyncValidators);
}

private _checkParentType(): void {
  if (!(this._parent instanceof FormGroupName) &&
      this._parent instanceof AbstractFormGroupDirective) {
    ReactiveErrors.ngModelGroupException();
  } else if (!
      (this._parent instanceof FormGroupName) && !(this._parent instanceof FormGroupDirective) &&
      !(this._parent instanceof FormArrayName)) {
    ReactiveErrors.controlParentException();
  }
}

private _setUpControl() {
  this._checkParentType();
  (this as{control: FormControl}).control =
  this.formDirective.addControl(this);
  if (this.control.disabled && this.valueAccessor !== null) {
    this.valueAccessor.setDisabledState !(true);
  }
  this._added = true;
}

/**
 * @description
 * Defines the map of errors returned from failed validation checks.
 * @publicApi
 */
export type ValidationErrors = {
  [key: string]: any
};

/**
 * @description
 * An interface implemented by classes that perform synchronous validation.
 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create a
 * validator directive with a custom error key.
 */
export interface Validator {
  /**
   * @description
   * Method that performs synchronous validation against the provided control.
   *
   * @param control The control to validate against.
   *
   * @returns A map of validation errors if validation fails, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null;
}

/**
 * @description
 * An interface implemented by classes that perform asynchronous validation.
 * @usageNotes
 *
 * ### Provide a custom async validator
 *
 * The following example implements the `AsyncValidator` interface to create an
 * validator directive with a custom error key.
 */
export interface AsyncValidator extends Validator {
  /**
   * @description
   * Method that performs async validation against the provided control.
   *
   * @param control The control to validate against.
   *
   * @returns A promise or observable that resolves a map of validation errors
   * if validation fails, otherwise null.
   */
  validate(control: AbstractControl): Promise<ValidationErrors|null> |
      Observable<ValidationErrors|null>;
}

/**
 * @description
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

/**
 * @description
 * Provider which adds
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};
```
'CheckboxRequiredValidator' to the 'NG_VALIDATORS' multi-provider list.

```typescript
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting:
  forwardRef(() => CheckboxRequiredValidator),
  multi: true
};
```

**Method that validates whether the control is empty.**

```typescript
* @description
* Returns the validation result if enabled, otherwise null.

```typescript
* @param fn
* The callback function which validates the control.
```
AbstractControl): ValidationErrors|null {\n  return this._enabled ? Validators.email(control) : null;\n}\n/**\n @description * Registers a callback function to change when the validator inputs change.\n \n * The callback function\n *\n registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }\n\n * @description * A function that receives a control and synchronously returns a map of\n * validation errors if present, otherwise null.\n \n * @param fn \n * @publicApi \n * \n * @export interface ValidatorFn {\n    (control: AbstractControl): ValidationErrors|null {\n      return this._enabled ? Validators.email(control) : null;\n    }\n  }

  /**\n   * @description\n   * Registers a callback function to call when the validator inputs change.\n   *
   * @param fn\n   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

/**\n * @description\n * A function that receives a control and synchronously returns a map of\n * validation errors if present, otherwise null.\n \n * @publicApi \n * \n * @export interface AsyncValidatorFn {\n    (control: AbstractControl): Promise<ValidationErrors|null>\n    | Observable<ValidationErrors|null>; \n  }\n\n * @description * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.\n */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() =>
    MinLengthValidator),\n  multi: true,\n};\n
/**\n * @description\n * A lifecycle method called when the directive's inputs change. For internal use\n * only.\n *\n * @param changes A\n *\n * @description * Tracks changes to the the minimum length bound to this directive.\n *\n * @description * A lifecycle method called when the directive's inputs change. For internal use\n * only.\n *\n * @param changes A\n *\n * @description * A lifecycle method called when the directive's inputs change. For internal use\n * only.\n *\n * @param changes A

/**\n * @description\n * A directive that adds max length validation to controls marked with the\n * `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n *\n * @see [Form Validation](guide/form-validation)\n */
export class MaxLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.\n  private _validator !: ValidatorFn;\n  // TODO(issue/24571): remove '!'.\n  private _onChange !: () => void;\n
  /**\n   * @description\n   * A function that receives a control and synchronously returns a map of\n   * validation errors if present, otherwise null.\n   *\n   * @param fn \n   * @publicApi \n   * \n   * @export interface ValidatorFn {\n   *    (control: AbstractControl): ValidationErrors|null {\n   *      return this._enabled ? Validators.email(control) : null;\n   *    }\n   *  }
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private _createValidator(): void {
    this._validator = Validators.minLength(
        typeof this.minlength === 'number' ?
        this.minlength : parseInt(this.minlength, 10));
  }
}

/**\n * @description\n * Provider which adds \n */
export const MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() =>
    MaxLengthValidator),\n  multi: true,\n};\n
/**\n * @description * A lifecycle method called when the directive's inputs change. For internal use\n * only.\n *\n * @param changes A

/**\n * @description\n * Provider which adds \n */
export const MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() =>
    MaxLengthValidator),\n  multi: true,\n};\n
/**\n * @description * A lifecycle method called when the directive's inputs change. For internal use\n * only.\n *\n * @param changes A

/**\n * @description\n * Provider which adds \n */
export const MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() =>
    MaxLengthValidator),\n  multi: true,\n};\n
/**\n * @description * A lifecycle method called when the directive's inputs change. For internal use\n * only.\n *\n * @param changes A
object of key/value pairs for the set of changed inputs.

ngOnChanges(changes: SimpleChanges): void {
  if ('maxlength' in changes) {
    this._createValidator();
    if (this._onChange) this._onChange();
  }
}

/**
 * @description
 * Method that validates whether the value exceeds the maximum length
 * requirement.
 */
validates(abstractControl: AbstractControl): ValidationErrors|null {
  return this.maxlength !== null ?
    this._validator(abstractControl) : null;
}

/**
 * @description
 * Registers a callback function to call when the validator inputs change.
 */
registerOnValidatorChange(fn: () => void): void {
  this._onChange = fn;
}

private _createValidator(): void {
  this._validator = Validators.maxLength(
    typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
}

/**
 * @description
 * A directive that adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true
};

/**
 * @description
 * A directive that adds regex pattern validation to controls marked with the
 * `pattern` attribute. The regex must match the entire control value.
 * The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * Adding a pattern validator: The following example shows how to add a pattern validator to an input attached to an
 * `ngModel` binding.
 * ```html
 * <input name="firstName" ngModel pattern="[a-zA-Z ]*">
 * ```
 */
@Directive(
  {selector:
    '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  providers:
    [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}}
)
export class PatternValidator
  implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;

  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the pattern bound to this directive.
   */
  // TODO(issue/24571): remove '!'.
  @Input() pattern !: string | RegExp;

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For
   * internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value matches the pattern requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control); }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void {
    this._validator = Validators.pattern(this.pattern);
  }
}

// TODO(issue/24571): remove '!'.
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// found in the LICENSE file at
// https://angular.io/license

import {NgModule, Type} from '@angular/core';

import {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
import {DefaultValueAccessor} from './directives/default_value_accessor';
import {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator,
RequiredValidator} from './directives/validators';\n\nexport {CheckboxControlValueAccessor} from
'./directives/checkbox_value_accessor';\nexport {ControlValueAccessor} from
'./directives/control_value_accessor';\nexport {DefaultValueAccessor} from
'./directives/default_value_accessor';\nexport {NgControl} from './directives/ng_control';\nexport {NgControlStatus,
NgControlStatusGroup} from './directives/ng_control_status';\nexport {NgForm} from
'./directives/ng_form';\nexport {NgModel} from './directives/ng_model';\nexport {NgModelGroup} from
'./directives/ng_model_group';\nexport {NumberValueAccessor} from './directives/number_value_accessor';\nexport
{RadioControlValueAccessor} from './directives/radio_control_value_accessor';\nexport {RangeValueAccessor}
from './directives/range_value_accessor';\nexport {FormControlDirective,
NG_MODEL_WITH_FORM_CONTROL_WARNING} from
'./directives/reactive_directives/form_control_directive';\nexport {FormControlName} from
'./directives/reactive_directives/form_control_name';\nexport {FormGroupDirective} from
'./directives/reactive_directives/form_group_directive';\nexport {FormArrayName, FormGroupName} from
'./directives/reactive_directives/form_group_name';\nexport {NgSelectOption, SelectControlValueAccessor} from
'./directives/select_control_value_accessor';\nexport {NgSelectMultipleOption,
SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';\n\nexport const
SHARED_FORM_DIRECTIVES: Type<any>[] = [\n NgNoValidate,\n NgSelectOption,\n
NgSelectMultipleOption,\n DefaultValueAccessor,\n NumberValueAccessor,\n RangeValueAccessor,\n
CheckboxControlValueAccessor,\n SelectControlValueAccessor,\n SelectMultipleControlValueAccessor,\n
RadioControlValueAccessor,\n NgControlStatus,\n NgControlStatusGroup,\n RequiredValidator,\n
MinLengthValidator,\n MaxLengthValidator,\n PatternValidator,\n CheckboxRequiredValidator,\n
EmailValidator,\n];\n\nexport const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel,
NgModelGroup, NgForm];\n\nexport const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] =\n
[FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName];\n\n/**\n *
Internal module used for sharing directives between FormsModule and ReactiveFormsModule\n
*/\n@NgModule({\n declarations: SHARED_FORM_DIRECTIVES,\n exports:
SHARED_FORM_DIRECTIVES,\n})\nexport class ÉµInternalFormsSharedModule {\n}\n\nexport
{ÉµInternalFormsSharedModule as InternalFormsSharedModule};\n","/**\n * @license\n * Copyright Google Inc.
All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in
the LICENSE file at https://angular.io/license\n */\n\nimport {Injectable} from '@angular/core';\n\nimport
{AsyncValidatorFn, ValidatorFn} from './directives/validators';\nimport {AbstractControl, AbstractControlOptions,
FormArray, FormControl, FormGroup, FormHooks} from './model';\n\nfunction isAbstractControlOptions(options:
AbstractControlOptions | {[key: string]: any}):\n options is AbstractControlOptions {\n return
(<AbstractControlOptions>options).asyncValidators !== undefined ||\n
(<AbstractControlOptions>options).validators !== undefined ||\n
(<AbstractControlOptions>options).updateOn
!== undefined;\n}\n\n/**\n * @description\n * Creates an `AbstractControl` from a user-specified configuration.\n
*\n * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,\n *
`FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex\n * forms.\n *\n *
@see [Reactive Forms Guide](/guide/reactive-forms)\n *\n * @publicApi\n */\n@Injectable()\nexport class
FormBuilder {\n /**\n * @description\n * Construct a new `FormGroup` instance.\n *\n * @param
controlsConfig A collection of child controls. The key for each child is the name\n * under which it is registered.\n
*\n * @param options Configuration options object for the `FormGroup`. The object can\n * have two shapes:\n
*\n * 1) `AbstractControlOptions` object (preferred), which consists of:\n * * `validators`: A synchronous
validator function, or an array of validator functions\n * * `asyncValidators`: A single async validator or array of
async validator functions\n * * `updateOn`: The event upon which the control should be updated (options: 'change'
| 'blur' |\n * submit')\n *\n * 2) Legacy configuration object, which consists of:\n * * `validator`: A synchronous
validator function, or an array of validator functions\n * * `asyncValidator`: A single async validator or array of
async validator functions\n *\n */\n group(\n
controlsConfig: {[key: string]: any},\n
options:

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AbstractControlOptions{{key: string}: any}|null = null): FormGroup {{
  const controls = this._reduceControls(controlsConfig);  
  let validators: ValidatorFn[]|ValidatorFn[] = null;  
  let asyncValidators: AsyncValidatorFn[]|AsyncValidatorFn[] = null;  
  let updateOn: FormHook|undefined = undefined;  
  if (options !== null) {{
    // `options` are
    if (isAbstractControlOptions(options)) {{
      this.validateOptions = options.validators;  
      this.asyncValidateOptions = options.asyncValidators;  
      this.updateOnOptions = options.updateOn;  
      this.updateOn = options.updateOn;  
      if (updateOn !== undefined) {{
        updateOn = undefined;  
      } else {
        // `options` are legacy form group
        validators = options['validator'] === null ? null : options.validators;  
        asyncValidators = options['asyncValidator'] === null ? null : options.asyncValidators;  
      }
    } else {
      // `options` are legacy form group
      validators = options.validators === null ? null : options.validators;  
      asyncValidators = options.asyncValidators === null ? null : options.asyncValidators;  
    }
  }

  return new FormGroup(controls, {validators, asyncValidators, updateOn, validators});
}}

/**
 * @description
 * Construct a new `AbstractControlOptions` object that contains
 * validation functions and a validation trigger.

 * @param formState Initializes the control
 * with an initial state value, or
 * with an object that contains both a value and a disabled status.

 * @param asyncValidatorOrOpts A synchronous validator function,
 * or an array of
 * such functions, or an

 * `AbstractControlOptions` object that contains
 * validation functions and a validation trigger.

 * @param asyncValidatorOrOpts A synchronous validator function,
 * or an array of
 * such functions, or an

 * `AbstractControlOptions` object that contains
 * validation functions and a validation trigger.

 * @param asyncValidatorOrOpts A synchronous validator function,
 * or an array of
them available for import by NgModules that import this module.

```typescript
export * @see [Forms Guide](guide/forms)

providers:
  [RadioControlRegistry],
exports: [InternalFormsSharedModule,
  TEMPLATE_DRIVEN_DIRECTIVES]

export class FormsModule {
  * @publicApi

  * @see [Forms](guide/forms)
}
```

---

/**
 * Exports the required infrastructure and directives for reactive forms,
 * making them available for import by NgModules that import this module.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 *
 * @publicApi
 */

```typescript
@NgModule({
  declarations: [REACTIVE_DRIVEN_DIRECTIVES],
  providers: [FormBuilder, RadioControlRegistry],
  exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
})
export class ReactiveFormsModule {
  /**
   * @description
   *
   * Provides options for configuring the reactive forms module.
   *
   * @param opts An object of configuration options
   *   * `warnOnNgModelWithFormControl` Configures when to emit a warning when an `NgModel` binding is used with reactive form directives.
   * @publicApi
   */
  static withConfig(opts: {warnOnNgModelWithFormControl: 'never' | 'once' | 'always'}){
    return {
      ngModule: ReactiveFormsModule,
      providers: [{
        provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
        useValue: opts.warnOnNgModelWithFormControl
      }]
    };
  }
}
```

---

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 * found in the LICENSE file at https://angular.io/license
 */

```typescript
export * from './form_providers';
```

---

```
export * from './validators';
```

---

```
export * from './directives/validators';
```

---

```
export * from './directives';
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```
export * from './form_providers';
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export * from './directives/validators';
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```
export * from './form_providers';
```
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The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/README.md
No license file was found, but licenses were detected in source scan.

/**
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 */

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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm2015/forms.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm5/forms.js
No license file was found, but licenses were detected in source scan.

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 */
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***************************************************************************** */
/**
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 *
The following is an example of writing the disabled property to a native DOM element:

```typescript
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
```

Using a checkbox with a reactive form:

```typescript
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
  // ... setup
}

writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}
```

The following example shows how to use a checkbox with a reactive form:

```typescript
const rememberLoginControl = new FormControl();

<input type="checkbox" [formControl]="rememberLoginControl">
```

We must check whether the agent is Android because composition events behave differently between iOS and Android:

```javascript
function _isAndroid(): boolean {
  const userAgent = getDOM() ? getDOM().getUserAgent() : '';
  return /android (\d+)/.test(userAgent.toLowerCase());
}
```

The default `ControlValueAccessor` for writing a value and listening to changes on input elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

```typescript
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
  // ... setup
}
```

The following example shows how to use an input element that activates the default value accessor (in this case, a text field):

```typescript
<input type="text" [(ngModel)]="defaultValue"
```
const firstNameControl = new FormControl();

@Directive({
  selector:
    'input:not([type=checkbox])[formControlName], textarea[formControl]
    , input:not([type=checkbox])[formControl]',
  providers: [DEFAULT_VALUE_ACCESSOR]
})
export class DefaultValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};
  onTouched = () => {};
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
  _handleInput(value: any): void {
    if (!this._compositionMode || (this._compositionMode && !this._composing)) {
      this.onChange(value);
    }
  }
  _compositionStart(): void { this._composing = true;
  }
  _compositionEnd(value: any): void {
    this._composing = false;
    this._compositionMode && this.writeValue(value);
  }
}

import {Observable} from 'rxjs';
import {AbstractControl} from '../model';
import {ValidationErrors} from './validators';

abstract class AbstractControlDirective {
  get control(): AbstractControl|null { return this.control ? this.control.value : null;
  }
  get value(): any { return this.control ? this.control.value : null; }
  get valid(): boolean|null { return this.control ? this.control.valid : true;
  }
  get invalid(): boolean|null { return this.control ? this.control.invalid : true;
  }
  get pending(): boolean|null { return this.control ? this.control.pending : true;
  }
}

"/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {FormControl, FormArray} from '@angular/forms';
import {FormGroup} from '@angular/forms';
import {ControlValueAccessor, NgModel} from '@angular/forms';

class FirstNameControl implements ControlValueAccessor {
  onChange = (_: any) => {};
  onTouched = () => {};
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
  _handleInput(value: any): void {
    if (!this._compositionMode || (this._compositionMode && !this._composing)) {
      this.onChange(value);
    }
  }
  _compositionStart(): void { this._composing = true;
  }
  _compositionEnd(value: any): void {
    this._composing = false;
    this._compositionMode && this.writeValue(value);
  }
}

from aggregate\n * values of ancestor controls. If the control is not present, null is returned.\n */\n get disabled(): boolean|null { return this.control ? this.control.disabled : null; }\n}*/\n* @description\n * Reports whether the control is enabled, meaning that the control is included in ancestor\n * calculations of validity or value. If the control is not present, null is returned.\n */\n get enabled(): boolean|null { return this.control ? this.control.enabled : null; }\n}*/\n* @description\n * Reports the control’s validation errors. If the control is not present, null is returned.\n */\n get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }\n}*/\n* @description\n * Reports whether the control is pristine, meaning that the user has not yet changed\n * the value in the UI. If the control is not present, null is returned.\n */\n get pristine(): boolean|null { return this.control ? this.control.pristine : null; }\n}*/\n* @description\n * Reports whether the control is touched, meaning that the user has triggered\n * a ‘blur’ event on it. If the control is not present, null is returned.\n */\n get touched(): boolean|null { return this.control ? this.control.touched : null; }\n}*/\n* @description\n * Reports the validation status of the control. Possible values include:\n * `VALID`, `INVALID`, 'DISABLED', and 'PENDING'.\n * If the control is not present, null is returned.\n */\n get status(): string|null { return this.control ? this.control.status : null; }\n}*/\n* @description\n * Reports whether the control is dirty, meaning that the user has not yet triggered\n * a ‘blur’ event on it. It if the control is not present, null is returned.\n */\n get dirty(): boolean|null { return this.control ? this.control.dirty : null; }\n}*/\n* @description\n * Returns an array that represents the path from the top-level form to this control.\n * Each index is the string name of the control on that level.\n */\n get path(): string[]|null { return null; }\n}*/\n* @description\n * Resets the control with the provided value if the control is present.\n */\n set(value: any): void {
  if (this.control) this.control.setValue(value);
}*/\n* @description\n * Reports the value of the control on that level.\n */\n get value(): any|null {
  return this.control ? this.control.value : null;
}*/\n* @description\n * Returns a multicasting observable that emits a validation status whenever it is\n * calculated for the control. If the control is not present, null is returned.\n */\n get statusChanges(): Observable<any>|null {
  return this.control ? this.control.statusChanges : null;
}*/\n* @description\n * Returns a multicasting observable of value changes for the control that emits every time the\n * value of the control changes in the UI or programmatically.\n */\n get valueChanges(): Observable<any>|null {
  return this.control ? this.control.valueChanges : null;
}*/\n* @description\n * Returns an array that represents the path from the top-level form to this control.\n * Each index is the string name of the control on that level.\n */\n get path(): string[]|null { return null; }\n}*/\n* @description\n * Resets the control with the provided value if the control is present.\n */\n set(value: any): void {
  if (this.control) this.control.reset(value);
}*/\n* @description\n * Reports whether the control is pristine, meaning that the user has not yet changed
 * the value in the UI. If the control is not present, null is returned.\n */\n get pristine(): boolean|null { return this.control ? this.control.pristine : null; }
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found in the LICENSE file at https://angular.io/license

*/

import {AbstractControlDirective} from

'.abstract_control_directive';
import {Form} from '.form_interface';

/**
   * @description
   * A base class
   * for directives that contain multiple registered instances of 'NgControl'.
   * Only used by the forms module.
   */

export abstract class ControlContainer extends AbstractControlDirective {
  /**
   * @description
   * The name for the control
   */
  // TODO(issue/24571): remove '!'.
  name !: string | number | null;

  /**
   * @description
   * The top-level form directive for the control
   */
  get formDirective(): Form|null { return null; }

  /**
   * @description
   * The path to this group
   */
  get path(): string[]|null { return null; }
}

/**
 * @description
 * A base class that all control `FormControl`-based directives extend. It binds a `FormControl` object to a DOM element.
 */

export abstract class NgControl extends AbstractControlDirective {
  /**
   * @description
   * The parent form for the control
   */
  _parent: ControlContainer|null = null;

  /**
   * @description
   * The name for the control
   */
  name: string|number|null = null;

  /**
   * @description
   * The value accessor for the control
   */
  valueAccessor: ControlValueAccessor|null = null;

  /**
   * @description
   * The uncomposed array of synchronous validators for the control
   */
  _rawValidators: Array<Validator|ValidatorFn> = [];

  /**
   * @description
   * The uncomposed array of async validators for the control
   */
  _rawAsyncValidators: Array<AsyncValidator|AsyncValidatorFn> = [];

  /**
   * @description
   * The registered synchronous validator function for the control
   */
  get validator(): ValidatorFn|null { return <ValidatorFn>unimplemented(); }

  /**
   * @description
   * The registered async validator function for the control
   */
  get asyncValidator(): AsyncValidatorFn|null { return <AsyncValidatorFn>unimplemented(); }

  /**
   * @description
   * The callback method to update the model from the view when requested
   */
  abstract viewToModelUpdate(newValue: any): void;
}

/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes
 * based on control status.
 */

@Directive({selector:

'}

@import [{AbstractControlDirective] from './abstract_control_directive';
@import {ControlContainer} from './control_container';
@import {NgControl} from './ng_control';

export class AbstractControlStatus {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) {
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }

  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }

  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }

  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }

  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }

  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }

  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

export const ngControlStatusHost = {
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};

/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes
 * based on control status.
 */

@Directive({selector:

'}

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import { FormControl, Validators } from '@angular/forms';

const control = new FormControl(2, Validators.min(3));

console.log(control.errors); // { min: { min: 3, actual: 2 } } 

export const min = (min: number): ValidatorFn => {
  return (control: AbstractControl): ValidationErrors | null => {
    if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const value = parseFloat(control.value);
    // Controls with NaN values after parsing should be treated as not
    // having a minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min
    return isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
  };

  /**
   * @description
   * Validator that requires the control's value to be less than or equal to the provided number.
   * @returns A validator function that returns an error map with the `max` property if the validation check fails, otherwise `null`.
   * @see `updateValueAndValidity()`
   * @usageNotes
   * ### Validate that the field matches a valid email pattern
   * ```typescript
   * const control = new FormControl('bad@', Validators.email);
   *
   * console.log(control.errors); // {email: true}
   * ```
   * @returns An error map that contains the `required` property set to `true` if the validation check fails, otherwise `null`.
   * @see `updateValueAndValidity()`
   * @usageNotes
   * Pattern suitable for common usecases. The pattern is based on the definition of a valid email address in the
   * WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)
   * with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).
   * ```typescript
   * const control = new FormControl(2, Validators.min(3));
   *
   * if (isEmptyInputValue(control.value)) {
   *   return null;  // don't validate empty values to allow optional controls
   * }
   * console.log(control.value); // undefined
   * ```
   * @returns A validator function that returns an error map with the `min` property if the validation check fails, otherwise `null`.
   * @see `updateValueAndValidity()`
   * @usageNotes
   * Pattern suitable for common usecases. The pattern is based on the definition of a valid email address in the
   * WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)
   * with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).
   * ```typescript
   * const control = new FormControl(2, Validators.min(3));
   *
   * if (isEmptyInputValue(control.value)) {
   *   return null;  // don't validate empty values to allow optional controls
   * }
   * console.log(control.value); // undefined
   * ```
to be greater than or equal to the provided minimum length. This validator is also provided by default if you use the

```html
<input pattern="\[a-zA-Z \]*">
```

### Validate that the field only contains letters or spaces

```typescript
const control = new FormControl('Angular', Validators.pattern('[a-zA-Z \]*'));
```

```html
<input pattern="\[a-zA-Z \]*">
```

### Validate that the field has maximum of 5 characters

```typescript
const control = new FormControl('Angular', Validators.maxLength(5));
```

```html
<input maxlength="5">
```

### Validate that the field has minimum of 3 characters

```typescript
const control = new FormControl('Angular', Validators.minLength(3));
```

```html
<input minlength="3">
```
union
   * of the individual error objects for the provided control.
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
   * otherwise `null`. * @see `updateValueAndValidity()`
   *
   * @returns A validator function that returns an error map with the
   * merged error objects of the async validators if the validation check fails,
@description
 * Registers a function called when the control value changes.
 * @param fn The callback function
 * @param onChange The callback function
 * @param registerOnChange Registers a function called when the control is touched.
 * @param registerOnTouched Sets the 'disabled' property on the input element.
 * @param isDisabled The disabled value
 * @param setDisabledState(isDisabled: boolean) void
 * @param this.onTouched() forwardsRef() from '@angular/core';
 * @ngInject

 * The `ControlValueAccessor` for writing radio control values and listening to radio control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * @publicApi

 * @example
 * ### Using radio buttons with reactive form directives
 * The following example shows how to use radio buttons in a reactive form. When using radio buttons in a reactive form, radio buttons in the same group should have the same `formControlName`. Providing a 'name' attribute is optional.

 * ```
 * import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '@angular/forms';
 * import {NgControl} from './ng_control';
 * import {NgModule} from '@angular/core';
 * import {ControlValueAccessor} from '@angular/forms';
 * ```

 * ```
 * @NgModule({
 *   declarations: [
 *     RadioControlValueAccessor
 *   ],
 *   exports: [
 *     RadioControlValueAccessor
 *   ],
 *   providers: [
 *     RADIO_VALUE_ACCESSOR
 *   ]
 * })
 * ```

 * ```
 * export class RadioControlValueAccessor implements ControlValueAccessor, OnDestroy, OnInit {
 *   constructor(private _renderer: Renderer2, private _elementRef: ElementRef, private _registry: RadioControlRegistry, private _injector: Injector) {
 *     this._state = !!this._elementRef.nativeElement.disabled;
 *     this._control = this._injector.get(NgControl);
 *     this._checkName();
 *     this._registry.add(this._control, this);
 *   }
 *   ```

 * ```
 * ngOnInit(): void {
 *   this._control = this._injector.get(NgControl);
 *   this._checkName();
 *   this._registry.add(this._control, this);
 * }`
@description
* Lifecycle method called before the directive's instance is destroyed. For internal use only.

```typescript
ngOnDestroy(): void { this._registry.remove(this); }
```

```typescript
/**
 * @description
 * The callback function
 */
registerOnDestroy(): void { this._registry.remove(this); }
```

```typescript
/**
 * @description
 * Sets the "checked" property value on the radio input element.
 */
writeValue(value: any): void {

```typescript
this._state = value === this.value;
```

```typescript
this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);

```typescript
this.writeValue(value);

```typescript
this.writeValue(value);
```
In your class:

    this.myGroup = new FormGroup({
        firstName: new FormControl()
    });

    In your class:

    this.myGroup = new FormGroup({
        person: new FormControl()
    });

    In your class:

    this.myGroup = new FormGroup({
        cities: new FormArray([new FormControl('SF')])
    });

    In your class:

    this.cityArray = new FormArray([new FormControl('SF')]);
    this.myGroup = new FormGroup({
        cities: this.cityArray
    });

    In your class:

    form = new FormGroup({
        first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
        last: new FormControl('Drew', Validators.required)
    });
return `${id}: ${value}`.slice(0, 50);
}

function _extractId(valueString: string): string {
  return valueString.split(':')[0];
}

// The 'ControlValueAccessor' for writing select control values and listening to select control\nchanges. The value accessor is used by the 'FormControlDirective', 'FormControlName', and \n'NgModel' directives.

function _buildValueString(id: string, value: any): string {
  return `${id}: ${value}`;
}

export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;
  /** @internal */
  _optionMap: Map<string, any> = new Map<string, any>();

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * Sets the "disabled" property on the select input element.
   *
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _registerOption(): string { return (this._idCounter++).toString();

  /**
   * Sets the "value" property on the input element. The \n * the selected index property is also set if an ID is
   * provided on the option element.
   */
  writeValue(value: any): void {
    this.value = value;
    const id: string|null = this._getOptionId(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    const valueString = _buildValueString(id, value);
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }

  /**
   * Registers a function called when the control value changes.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (valueString: string) => {
      this.value = this._getOptionValue(valueString);
      fn(this.value);
    };
  }

  /**
   * Registers a function called when the control is touched.
   *
   * @param fn The callback function
   */
  registerOnTouched(fn: () => any): void {
    this.onTouched = fn;
  }
}

/**
 * @description
 * The `ControlValueAccessor` for writing select control
 * values and listening to select control\nchanges. The value accessor is used by the 'FormControlDirective', 'FormControlName', and \n'NgModel' directives.
 *
 * @usageNotes
 *
 * ### Using select controls in a
 * reactive form
 *
 * ```ts
 * const selectedCountriesControl = new FormControl();
 * ```
 *
 * ```
 * <select [compareWith]="compareFn"
 * [formControl]="selectedCountriesControl">
 *     <option *ngFor="let country of countries"
 *             [ngValue]="country">
 *         {{country.name}}
 *     </option>
 * </select>
 *
 * compareFn(c1: Country, c2: Country): boolean {
 *     return c1 && c2 ? c1.id === c2.id : c1 === c2;
 * }
 * ```
 *
 * **Note:** We
 * listen to the 'change' event because 'input' events aren't fired\n * for selects in Firefox and IE:
 *
 * https://bugzilla.mozilla.org/show_bug.cgi?id=1024350
 * https://developer.microsoft.com/en-us/microsoft-
 * edge/platform/issues/4660045
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
  selector:
    'select:not([multiple])[formControlName],
     select:not([multiple])[formControl], select:not([multiple])[ngModel],

  host: {
    '(change)': 'onChange($event.target.value)',
    '(blur)': 'onTouched()',
  },
 providers: [SELECT_VALUE_ACCESSOR]
})
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;
  /** @internal */
  _optionMap: Map<string, any> = new Map<string, any>();

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * Sets the "disabled" property on the select input element.
   *
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _registerOption(): string { return (this._idCounter++).toString();

  /**
   * Sets the "value" property on the input element. The \n * the selected index property is also set if an ID is
   * provided on the option element.
   */
  writeValue(value: any): void {
    this.value = value;
    const id: string|null = this._getOptionId(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    const valueString = _buildValueString(id, value);
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }

  /**
   * Registers a function called when the control value changes.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (valueString:

  /**
   * Registers a function called when the control is touched.
   *
   * @param fn The callback function
   */
  registerOnTouched(fn: () => any): void {
    this.onTouched = fn;
  }

  /**
   * Sets the "disabled" property on the select input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperties(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /**
   * Sets the selected index property.
   */
  setSelectedIndex(index: number): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', index);
  }

  /**
   * Converts the selected value to the selected index.
   */
  getSelectedIndex(value: any): number {
    return this._getOptionIndex(value);
  }

  /**
   * Convert the selected index to the selected value.
   */
  getSelectedValue(index: number): any {
    return this._getOptionValue(index);
  }

  /**
   * Converts the selected index to the selected value.
   */
  getSelectedValue(index: number): any {
    return this._getOptionValue(index);
  }
/** @internal */
_getOptionId(value: any): string|null {
  for (const id of Array.from(this._optionMap.keys())) {
    if (this._compareWith(this._optionMap.get(id), value)) return id;
  }
  return null;
}
/** @internal */
_getOptionValue(valueString: string): any {
  const id = _extractId(valueString);
  return this._optionMap.get(id);
}
/**
 * @description
 * Marks `option` as dynamic, so Angular can be notified when options change.
 * @see `SelectControlValueAccessor`
 */
getOptionId(_: any, id: string): string|null {
  return this._optionMap.get(id);
}
/**
 * @description
 * ID of the option element
 */
getOptionValue(id: string): any {
  return this._optionMap.get(id);
}
/**
 * @description
 * Tracks the value bound to the option element. Unlike the value binding,
 * ngValue supports binding to objects. For objects, use the `ngValue` input binding.
 */
id!: string;
constructor(_element: ElementRef, _renderer: Renderer2, @Optional() @Host() private _select: SelectControlValueAccessor) {
  if (this._select) this.id = this._select._registerOption();
}
/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed.
 * For internal use only.
 */
ngOnDestroy(): void {
}
/**
 * @description
 * Tracks simple string values bound to the option element. For objects, use the `ngValue` input binding.
 */
@Input('value')
set value(value: any) {
  this._setElementValue(value);
  if (this._select) this._select.writeValue(this._select.value);
}
/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed.
 * For internal use only.
 */
ngOnDestroy(): void {
}
/**
 * @description
 * The current value
 */
value: any;
/**
 * @description
 * The registered callback function called
 */
ngOnChange(_: any) {
  this._select.writeValue(this._select.value);
}
/**
 * @description
 * The current value
 */
ngOnTouched(): void {
}
/**
 * @description
 * Marks `option` as dynamic, so Angular can be notified when options change.
 * @see `SelectControlValueAccessor`
 */
_getOptionId(value: any): string|null {
  for (const id of Array.from(this._optionMap.keys())) {
    if (this._compareWith(this._optionMap.get(id), value)) return id;
  }
  return null;
}
/** @internal */
_getOptionValue(valueString: string): any {
  const id = _extractId(valueString);
  return this._optionMap.get(id);
}
/**
 * @description
 * Marks `option` as dynamic, so Angular can be notified when options change.
 * @see `SelectControlValueAccessor`
 */
getOptionId(_: any, id: string): string|null {
  return this._optionMap.get(id);
}
/**
 * @description
 * ID of the option element
 */
getOptionValue(id: string): any {
  return this._optionMap.get(id);
}
/**
 * @description
 * Tracks the value bound to the option element. Unlike the value binding,
 * ngValue supports binding to objects. For objects, use the `ngValue` input binding.
 */
id!: string;
constructor(_element: ElementRef, _renderer: Renderer2, @Optional() @Host() private _select: SelectControlValueAccessor) {
  if (this._select) this.id = this._select._registerOption();
}
/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed.
 * For internal use only.
 */
ngOnDestroy(): void {
}
/**
 * @description
 * Tracks simple string values bound to the option element. For objects, use the `ngValue` input binding.
 */
@Input('value')
set value(value: any) {
  this._setElementValue(value);
  if (this._select) this._select.writeValue(this._select.value);
}
/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed.
 * For internal use only.
 */
ngOnDestroy(): void {
}
/**
 * @description
 * The current value
 */
value: any;
/**
 * @description
 * The registered callback function called
 */
ngOnChange(_: any) {
  this._select.writeValue(this._select.value);
}
/**
 * @description
 * The current value
 */
ngOnTouched(): void {
}
when a change event occurs on the input element.

```javascript
*/*
* The registered callback function called when a blur event occurs on the input element.
* onChange = (_: any) => {};

*/*
* @description
* Tracks the option comparison algorithm for tracking identities when checking for changes.
* onTouched = () => {};

*/*
* @description
* Sets the \`\`value\`\` property on one or more of the select's options.
* writeValue(value: any): void { if this.value = value; let optionSelectedStateSetter: (opt: ɵNgSelectMultipleOption, o: any) => void;

}`

```
this._renderer.setProperty(this._element.nativeElement, 'selected', selected);

/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
 ngOnDestroy(): void {
  if (this._select) {
    this._select._optionMap.delete(this.id);
    this._select.writeValue(this._select.value);
  }
}

/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
 ngOnDestroy(): void {
  if (this._select) {
    this._select._optionMap.delete(this.id);
    this._select.writeValue(this._select.value);
  }
}

export {ɵNgSelectMultipleOption as NgSelectMultipleOption};

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
 * https://angular.io/license
 */

import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {FormArray, FormControl, FormGroup} from '../model';
import {Validators} from '../validators';
import {AbstractControlDirective} from './abstract_control_directive';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {CheckboxControlValueAccessor} from './checkbox_value_accessor';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {DefaultValueAccessor} from './default_value_accessor';
import {NgControl} from './ng_control';
import {normalizeAsyncValidator, normalizeValidator} from './normalize_validator';
import {NumberValueAccessor} from './number_value_accessor';
import {RadioControlValueAccessor} from './radio_control_value_accessor';
import {RangeValueAccessor} from './range_value_accessor';
import {SelectControlValueAccessor} from './select_control_value_accessor';
import {SelectMultipleControlValueAccessor} from './select_multiple_control_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function controlPath(name: string | null, parent: ControlContainer): string[] {
  return [...parent.path, name] !;
}

export function setUpControl(control: FormControl, dir: NgControl): void {
  if (!control) _throwError(dir, 'Cannot find control with');
  if (!dir.valueAccessor) _throwError(dir, 'No value accessor for form control with');

  control.validator = Validators.compose([control.validator, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
  dir.valueAccessor.writeValue(control.value);

  setUpViewChangePipeline(control, dir);
  setUpModelChangePipeline(control, dir);
  setUpBlurPipeline(control, dir);

  if (dir.valueAccessor!.setDisabledState) {
    control.registerOnDisabledChange((isDisabled: boolean) => { dir.valueAccessor!.setDisabledState(isDisabled); });
  }

  // re-run validation when validator bindings change, e.g. minlength=3 -> minlength=4
  dir._rawValidators.forEach((validator: Validator | ValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange)
      (<Validator>validator).registerOnValidatorChange(() => control.updateValueAndValidity());
  });

  dir._rawAsyncValidators.forEach((validator: AsyncValidator | AsyncValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange)
      (<Validator>validator).registerOnValidatorChange(() => control.updateValueAndValidity());
  });

  if (control) control._clearChangeFns();
}

function setUpViewChangePipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor!.registerOnChange((newValue: any) => {
    control._pendingValue = newValue;
    control._pendingChange = true;
    control._pendingDirty = true;
    if (control.updateOn === 'change') updateControl(control, dir);
  });
}

function setUpBlurPipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor!.registerOnTouched(() => {
    control._pendingTouched = true;
    if (control.updateOn === 'blur' && control._pendingChange) updateControl(control, dir);
  });
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  if (control._pendingValue) control.markAsTouched();
  if (!control._pendingChange) control.updateValueAndValidity();
  if (dir.valueToModelUpdate) dir.valueToModelUpdate(control._pendingValue);
  control.updateValueAndValidity();
  if (control.updateOn === 'submit') control._clearChangeFns();
  if (dir.viewToModelUpdate) dir.viewToModelUpdate(control._pendingValue);
  if (dir.valueToModelUpdate) dir.valueToModelUpdate(control._pendingValue);
  if (dir.clearOnTouched) dir.clearOnTouched();
}

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'@angular/core';\nimport {Observable} from 'rxjs';\nimport {composeAsyncValidators, composeValidators} from
'./directives/shared';\nimport {AsyncValidatorFn, ValidationErrors, ValidatorFn} from
'./directives/validators';\nimport {toObservable} from './validators';\n\n/**\n * Reports that a FormControl is valid,
meaning that no errors exist in the input value.\n *\n * @see `status`\n */\nexport const VALID = 'VALID';\n\n/**\n
* Reports that a FormControl is invalid, meaning that an error exists in the input value.\n *\n * @see `status`\n
*/\nexport const INVALID = 'INVALID';\n\n/**\n * Reports that a FormControl is pending, meaning that that async
validation is occurring and\n * errors are not yet available for the input value.\n *\n * @see `markAsPending`\n *
@see `status`\n */\nexport const PENDING = 'PENDING';\n\n/**\n * Reports that a FormControl is disabled,
meaning that the control is exempt from ancestor\n * calculations of validity or value.\n *\n * @see
`markAsDisabled`\n * @see `status`\n */\nexport const DISABLED = 'DISABLED';\n\nfunction _find(control:
AbstractControl, path: Array<string|number>| string, delimiter: string) {\n if (path == null) return null;\n\n if
(!Array.isArray(path)) {\n path = path.split(delimiter);\n }\n if (Array.isArray(path) && path.length === 0)
return null;\n\n // Not using Array.reduce here due to a Chrome 80 bug\n //
https://bugs.chromium.org/p/chromium/issues/detail?id=1049982\n let controlToFind: AbstractControl|null =
control;\n path.forEach((name: string | number) => {\n if (controlToFind instanceof FormGroup) {\n
controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?\n
controlToFind.controls[name]
:\n
null;\n } else if (controlToFind instanceof FormArray) {\n
controlToFind =
controlToFind.at(<number>name) || null;\n } else {\n
controlToFind = null;\n }\n });\n return
controlToFind;\n}\n\nfunction coerceToValidator(\n validatorOrOpts?: ValidatorFn | ValidatorFn[] |
AbstractControlOptions | null): ValidatorFn|\n null {\n const validator =\n
(isOptionsObj(validatorOrOpts) ?
(validatorOrOpts as AbstractControlOptions).validators :\n
validatorOrOpts) as ValidatorFn
|\n
ValidatorFn[] | null;\n\n return Array.isArray(validator) ? composeValidators(validator) : validator ||
null;\n}\n\nfunction coerceToAsyncValidator(\n asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null,
validatorOrOpts?: ValidatorFn |\n
ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null {\n
const origAsyncValidator =\n
(isOptionsObj(validatorOrOpts) ? (validatorOrOpts as
AbstractControlOptions).asyncValidators :\n
asyncValidator) as AsyncValidatorFn |\n
AsyncValidatorFn | null;\n\n return Array.isArray(origAsyncValidator) ?
composeAsyncValidators(origAsyncValidator) :\n
origAsyncValidator ||
null;\n}\n\nexport type FormHooks = 'change' | 'blur' | 'submit';\n\n/**\n * Interface for options provided to an
`AbstractControl`.\n *\n * @publicApi\n */\nexport interface AbstractControlOptions {\n /**\n * @description\n
* The list of validators applied to a control.\n */\n validators?: ValidatorFn|ValidatorFn[]|null;\n /**\n *
@description\n * The list of async validators applied to control.\n */\n asyncValidators?:
AsyncValidatorFn|AsyncValidatorFn[]|null;\n /**\n * @description\n * The event name for control to update
upon.\n */\n updateOn?: 'change'|'blur'|'submit';\n}\n\n\nfunction isOptionsObj(\n validatorOrOpts?: ValidatorFn
| ValidatorFn[] | AbstractControlOptions | null): boolean {\n return validatorOrOpts != null &&
!Array.isArray(validatorOrOpts) &&\n
typeof validatorOrOpts === 'object';\n}\n\n\n/**\n * This is the base class
for `FormControl`, `FormGroup`, and `FormArray`.\n *\n * It provides some of the shared behavior that all controls
and groups of controls have, like\n * running validators, calculating status, and resetting state. It also defines the
properties\n * that are shared between all sub-classes, like `value`, `valid`, and `dirty`. It shouldn't be\n * instantiated
directly.\n *\n * @see [Forms Guide](/guide/forms)\n * @see [Reactive Forms Guide](/guide/reactive-forms)\n *
@see [Dynamic Forms Guide](/guide/dynamic-form)\n *\n * @publicApi\n */\nexport abstract class
AbstractControl {\n /** @internal */\n // TODO(issue/24571): remove '!'.\n _pendingDirty !: boolean;\n\n /**
@internal */\n // TODO(issue/24571): remove '!'.\n _pendingTouched !: boolean;\n\n /** @internal */\n
_onCollectionChange = () => {};\n\n /** @internal */\n // TODO(issue/24571): remove '!'.\n _updateOn !:
FormHooks;\n\n // TODO(issue/24571): remove '!'.\n private _parent !: FormGroup | FormArray;\n private
_asyncValidationSubscription: any;\n\n /**\n * The current value of the control.\n *\n * * For a `FormControl`,
the current value.\n * * For an enabled `FormGroup`, the values of enabled controls as an object\n * with a keyvalue pair for each member of the group.\n * * For a disabled `FormGroup`, the values of all controls as an object\n

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* with a key-value pair for each member of the group.

* For a `FormArray`, the values of enabled controls as an array.

* An public readonly value: any;

* Initialize the AbstractControl instance.

* @param validator The function that determines the synchronous validity of this control.

* @param asyncValidator The function that determines the asynchronous validity of this control.

constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {
  // The parent control.
  get parent(): FormGroup|FormArray { return this._parent; }
}

**PENDING**: This control is in the midst of conducting a validation check.

**INVALID**: This control has failed at least one validation check.

**DISABLED**: This control is exempt from validation checks.

* These status values are mutually exclusive, so a control cannot be

both valid AND invalid or invalid AND disabled.

// TODO(issue/24571): remove `!`:

public readonly status!: string;

get status(): string {
  return this.status;
}

* A control is `valid` when its `status` is `VALID`.

* A control is `invalid` when its `status` is `INVALID`.

* A control is `pending` when its `status` is `PENDING`.

* A control is `disabled` when its `status` is `DISABLED`.

* A control is `enabled` as long as its `status` is not `DISABLED`.

* A control is `enabled` while its `status` is not `DISABLED`.

* A control is `touched` once the user has triggered `a` `blur` event on it.

* A control is `touched` programmatically. It also emits an event each time you call enable() or disable() without passing along

{emitEvent: false} as a function argument.

public readonly valueChanges!: Observable<any>;

* A multicasting observable that emits an event every time the value of the control changes, in

* the UI or programmatically. It also emits an event every time you call enable() or disable() without passing along

{emitEvent: false} as a function argument.

public readonly value: any;

* An public readonly value: any;

* Initialize the AbstractControl instance.

* @param validator The function that determines the synchronous validity of this control.

* @param
this.validator = coerceToValidator(newValidator);

/**
 * Sets the async validators that are active on this control. Calling this
 * overwrites any existing async validators.
 * @param asyncValidators The array of async validators.
 * @returns void
 */
setAsyncValidators(asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null): void {
    this.asyncValidator = coerceToAsyncValidator(asyncValidators);
}

/**
 * Empties out the async validator list.
 * @returns void
 */
clearAsyncValidators(): void { this.asyncValidator = null; }

/**
 * Empties out the sync validator list.
 * @returns void
 */
clearValidators(): void { this.validator = null; }

/**
 * Marks the control as `touched`. A control is touched by focus and blur events that do not change the value.
 * If the control has any children, also marks all children as `untouched`
 * and recalculates the `touched` status of all parent controls.
 * @param onlySelf If true, marks only this control.
 * @returns void
 */
markAsTouched(onlySelf?: boolean): void {
    (this as{touched: boolean}).touched = true;

    if (this._parent && !onlySelf) {
        this._parent.markAsTouched(onlySelf);
    }
}

/**
 * Marks the control as `dirty`. A control becomes dirty
 * when its value is changed through the UI; compare `markAsTouched`.
 * @param onlySelf If true, marks only this control.
 * @returns void
 */
markAsDirty(onlySelf?: boolean): void {
    (this as{pristine: boolean}).pristine = false;

    if (this._parent && !onlySelf) {
        this._parent.markAsDirty(onlySelf);
    }
}

/**
 * Marks the control as `pristine`.
 * If the control has any children, marks all children as `pristine`,
 * and recalculates the `pristine` status of all parent controls.
 * @param onlySelf If true, marks only this control.
 * @returns void
 */
markAsPristine(onlySelf?: boolean): void {
    (this as{pristine: boolean}).pristine = true;

    this._forEachChild((control: AbstractControl) => control.markAsPristine(onlySelf));
}

/**
 * Marks the control as `pending`. A control is pending while the control performs async validation.
 * @param onlySelf If true, marks only this control.
 * @returns void
 */
markAsPending(onlySelf?: boolean): void {
    (this as{pending: boolean}).pending = true;

    this._forEachChild((control: AbstractControl) => control.markAsPending(onlySelf));
}

/**
 * Empties out the sync validator list.
 * @returns void
 */
clearValidators(): void { this.validator = null; }

/**
 * Empties out the async validator list.
 * @returns void
 */
clearAsyncValidators(): void { this.asyncValidator = null; }

/**
 * Marks the control as `touched`. A control is touched by focus and blur events that do not change the value.
 * If the control has any children, also marks all children as `untouched`
 * and recalculates the `touched` status of all parent controls.
 * @param onlySelf If true, marks only this control.
 * @returns void
 */
markAsTouched(onlySelf?: boolean): void {
    (this as{touched: boolean}).touched = true;

    if (this._parent && !onlySelf) {
        this._parent.markAsTouched(onlySelf);
    }
}

/**
 * Marks the control as `dirty`. A control becomes dirty
 * when its value is changed through the UI; compare `markAsTouched`.
 * @param onlySelf If true, marks only this control.
 * @returns void
 */
markAsDirty(onlySelf?: boolean): void {
    (this as{pristine: boolean}).pristine = false;

    if (this._parent && !onlySelf) {
        this._parent.markAsDirty(onlySelf);
    }
}

/**
 * Marks the control as `pristine`.
 * If the control has any children, marks all children as `pristine`,
 * and recalculates the `pristine` status of all parent controls.
 * @param onlySelf If true, marks only this control.
 * @returns void
 */
markAsPristine(onlySelf?: boolean): void {
    (this as{pristine: boolean}).pristine = true;

    this._forEachChild((control: AbstractControl) => control.markAsPristine(onlySelf));
}

/**
 * Marks the control as `pending`. A control is pending while the control performs async validation.
 * @param onlySelf If true, marks only this control.
 * @returns void
 */
markAsPending(onlySelf?: boolean): void {
    (this as{pending: boolean}).pending = true;

    this._forEachChild((control: AbstractControl) => control.markAsPending(onlySelf));
}
as({status: string}).status = PENDING;
if (opts.emitEvent !== false) {
  (this.statusChanges as EventEmitter<any>).emit(this.status);
} else if (this._parent && !opts.onlySelf) {
  this._parent.markAsPending(opts);
}

/**
 * Disables the control. This means the control is exempt
 from validation checks and * excluded from the aggregate value of any parent. Its status is 'DISABLED'.
 * If the control has children, all children are also disabled.
 * @see {link AbstractControl.status} for disallowing
 * @param opts Configuration options that determine how the control propagates * changes and emits events after
 * the control is disabled.
 * @param onlySelf: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false.
 * @param emitEvent: When true or not supplied (the default), both the * statusChanges and * valueChanges * observables emit events with the latest status and value when the control is disabled.
 * When false, no events are emitted.
 */
disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  (this as {status: string}).status = DISABLED;
  (this as {errors: ValidationErrors | null}).errors = null;
  this._forEachChild((control: AbstractControl) => control.disable({...opts, onlySelf: true}));
  this._updateValue();
  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  }
  this._updateAncestors({...opts, skipPristineCheck: true});
  this._onDisabledChange.forEach((changeFn) => changeFn(true));
}

/**
 * Enables the control. This means the control is included in validation checks and
 * the aggregate value of its parent. Its status recalculates based on its value and * its validators.
 * By default, if the control has children, all children are enabled.
 * @see {link AbstractControl.status} for allowing
 * @param opts Configure options that control how the control propagates changes and * emits events when
 * the control is enabled.
 * When false, no events are emitted.
 * @param onlySelf: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false.
 * @param emitEvent: When true or not supplied (the default), both the * statusChanges and * valueChanges * observables emit events with the latest status and value when the control is enabled.
 * When false, no events are emitted.
 */
enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  (this as {status: string}).status = VALID;
  this._forEachChild((control: AbstractControl) => control.enable({...opts, onlySelf: true}));
  this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
  this._updateAncestors({...opts, skipPristineCheck: true});
  this._onDisabledChange.forEach((changeFn) => changeFn(false));
}

/**
 * Sets the parent of the control
 */
setParent(parent: FormGroup | FormArray): void {
  this._parent = parent;
}

/**
 * Sets the value of the control. Abstract method (implemented in sub-classes).
 */
setValue(value: any, options?: Object): void {
  // ...
this._calculateStatus();

if (this.status === VALID || this.status === PENDING) {
    this._runAsyncValidator(opts.emitEvent);}
}

if (this.status === VALID || this.status === PENDING) {
    this._runAsyncValidator(opts.emitEvent);
}

if (this._parent && !opts.onlySelf) {
    this._parent.updateValueAndValidity(opts);}

if (opts.emitEvent !== false) {
    (this.valueChanges
    as EventEmitter<any>).emit(this.value);
    (this.statusChanges as EventEmitter<string>).emit(this.status);
}

if (this._parent && !opts.onlySelf) {
    this._parent.updateValueAndValidity(opts);
}

/**
@internal */
this._updateTreeValidity(opts: {emitEvent?: boolean} = {emitEvent: true}) {
    this._forEachChild((ctrl: AbstractControl) => ctrl._updateTreeValidity(opts));
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
}

this._setInitialStatus() {
    (this as{status: string}).status = this._allControlsDisabled() ? DISABLED : VALID;
}

this._runValidator(): ValidationErrors|null {
    return this.validator ? this.validator(this) : null;
}

this._runAsyncValidator(emitEvent?: boolean): void {
    if (this.asyncValidator) {
        (this as{status: string}).status = PENDING;
        const obs = toObservable(this.asyncValidator(this));
        this._asyncValidationSubscription =
            obs.subscribe((errors: ValidationErrors | null) => this.setErrors(errors, {emitEvent});
    }
}

this._cancelExistingSubscription(): void {
    if (this._asyncValidationSubscription) {
        this._asyncValidationSubscription.unsubscribe();
    }
}

/**
* Sets errors on a form control when running
* validations manually, rather than automatically.
* @param param A dot-delimited string or array of string/number values that
* define the path to the
* control.
* @param param A list of control names that designates how to move from the current control
* to the control that should be queried for
* errors.
* @param param A list of control names that designates how to move from the current control
* to the control that should be queried for
* errors.
* @param param A list of control names that designates how to move from the current control
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* errors.
* @param param A list of control names that designates how to move from the current control
* to the control that should be queried for
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```javascript
boolean): void {
    (this as{status: string}).status = this._calculateStatus();
    if (emitEvent) {
        (this as{statusChanges as EventEmitter<string>}).emit((this.status: string));
    }

    if (emitEvent) {
        (this.statusChanges as EventEmitter<string>).emit(this.status);
    }

    if (this._parent) {
        this._parent._updateControlsErrors(emitEvent);
    }

    if (this._parent && !opts.onlySelf) {
        this._parent._updatePristine(opts);
    }

    this._updateValue();
    this._forEachChild(cb: Function);
    this._anyControlsHaveStatus(PENDING); return PENDING;

    return INVALID;
}

/** @internal */
abstract _updateValue(): void;

/** @internal */
abstract _forEachChild(cb: Function);

/** @internal */
abstract _anyControls(condition: Function): boolean;

/** @internal */
abstract _anyControlsHaveStatus(status: string): boolean;

/** @internal */
abstract _anyControlsDirty(): boolean;

/** @internal */
abstract _anyControlsTouched(): boolean;

/** @internal */
abstract _updatePristine(opts: {onlySelf?: boolean} = {});

/** @internal */
abstract _updateTouched(opts: {onlySelf?: boolean} = {});

/** @internal */
abstract _onDisabledChange: Function[] = [];

/** @internal */
abstract _isBoxedValue(formState: any): boolean;

/** @internal */
abstract _registerOnCollectionChange(fn: () => void): void;

/** @internal */
abstract _setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void;

/**
 * Check to see if parent has been marked artificially dirty.
 * @internal
 */
private _parentMarkedDirty(onlySelf?: boolean): boolean {
    const parentDirty = this._parent && this._parent.dirty;
    return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
}

/**
 * Tracks the value and validation status of an individual form control.
 */

```
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```javascript
const control = new FormControl('Nancy');

console.log(control.value); // 'Nancy'

control.reset('Drew');

console.log(control.value); // 'Drew'

control.reset({ value: 'Drew', disabled: true });

control.reset('Drew');

console.log(control.value); // 'Drew'

control.reset({ value: 'Drew', disabled: true, emitEvent: false });

console.log(control.value); // 'Drew'

```
changes\n */\n registerOnChange(fn: Function): void { this._onChange.push(fn); }\n\n /**\n * @internal\n */\n
_clearChangeFns(): void {\n this._onChange = [];\n this._onDisabledChange = [];\n this._onCollectionChange
= () => {};\n }\n\n /**\n * Register a listener for disabled events.\n *\n * @param fn The method that is called
when the disabled status changes.\n */\n registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {\n
this._onDisabledChange.push(fn);\n }\n\n /**\n * @internal\n */\n _forEachChild(cb: Function): void {}\n\n
/** @internal */\n _syncPendingControls(): boolean {\n if (this.updateOn === 'submit') {\n
if
(this._pendingDirty) this.markAsDirty();\n
if (this._pendingTouched) this.markAsTouched();\n
if
(this._pendingChange) {\n
this.setValue(this._pendingValue, {onlySelf: true, emitModelToViewChange:
false});\n
return true;\n
}\n }\n return false;\n }\n\n private _applyFormState(formState: any) {\n if
(this._isBoxedValue(formState)) {\n
(this as{value: any}).value = this._pendingValue = formState.value;\n
formState.disabled ? this.disable({onlySelf: true, emitEvent: false}) :\n
this.enable({onlySelf: true,
emitEvent: false});\n } else {\n
(this as{value: any}).value = this._pendingValue = formState;\n }\n
}\n}\n\n/**\n * Tracks the value and validity state of a group of `FormControl` instances.\n *\n * A `FormGroup`
aggregates the values of each child `FormControl` into one object,\n * with each control name as the key. It
calculates its status by reducing the status values\n * of its children. For example, if one of the controls in a group is
invalid, the entire\n * group becomes invalid.\n *\n * `FormGroup` is one of the three fundamental building blocks
used to define forms in Angular,\n * along with `FormControl` and `FormArray`.\n *\n * When instantiating a
`FormGroup`, pass in a collection of child controls as the first\n * argument. The key for each child registers the
name for the control.\n *\n * @usageNotes\n *\n * ### Create a form group with 2 controls\n *\n * ```\n * const
form = new FormGroup({\n * first: new FormControl('Nancy', Validators.minLength(2)),\n * last: new
FormControl('Drew'),\n * });\n *\n * console.log(form.value); // {first: 'Nancy', last; 'Drew'}\n *
console.log(form.status); // 'VALID'\n * ```\n *\n * ### Create a form group with a group-level validator\n *\n *
You include group-level validators as the second arg, or group-level async\n * validators as the third arg. These
come in handy when you want to perform validation\n * that considers the value of more than one child control.\n
*\n * ```\n * const form = new FormGroup({\n * password: new FormControl('', Validators.minLength(2)),\n *
passwordConfirm: new FormControl('', Validators.minLength(2)),\n * }, passwordMatchValidator);\n *\n *\n *
function passwordMatchValidator(g: FormGroup) {\n * return g.get('password').value ===
g.get('passwordConfirm').value\n *
? null : {'mismatch': true};\n * }\n * ```\n *\n * Like `FormControl`
instances, you choose to pass in\n * validators and async validators as part of an options object.\n *\n * ```\n * const
form = new FormGroup({\n * password: new FormControl('')\n * passwordConfirm: new FormControl('')\n * }, {
validators: passwordMatchValidator, asyncValidators: otherValidator });\n * ```\n *\n * ### Set the updateOn
property for all controls in a form group\n *\n * The options object is used to set a default value for each child\n *
control's `updateOn` property. If you set `updateOn` to `'blur'` at the\n * group level, all child controls default to
'blur', unless the child\n * has explicitly specified a different `updateOn` value.\n *\n * ```ts\n * const c = new
FormGroup({\n * one: new FormControl()\n * }, { updateOn: 'blur' });\n * ```\n *\n * @publicApi\n */\nexport
class FormGroup extends AbstractControl {\n /**\n * Creates a new `FormGroup` instance.\n *\n * @param
controls A collection of child controls. The key for each child is the name\n * under which it is registered.\n *\n *
@param validatorOrOpts A synchronous validator function, or an array of\n * such functions, or an
`AbstractControlOptions` object that contains validation functions\n * and a validation trigger.\n *\n * @param
asyncValidator A single async validator or array of async validator functions\n *\n */\n constructor(\n public
controls: {[key: string]: AbstractControl},\n
validatorOrOpts?:
ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n
asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null) {\n super(\n
coerceToValidator(validatorOrOpts),\n
coerceToAsyncValidator(asyncValidator, validatorOrOpts));\n this._initObservables();\n
this._setUpdateStrategy(validatorOrOpts);\n this._setUpControls();\n this.updateValueAndValidity({onlySelf:
true, emitEvent: false});\n }\n\n /**\n * Registers a control with the group's list of controls.\n *\n * This
method does not update the value or validity of the control.\n * Use {@link FormGroup#addControl addControl}
instead.\n *\n * @param name The control name to register in the collection\n * @param control Provides the

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function registerControl(name: string, control: AbstractControl): AbstractControl {
  if (this.controls[name]) return this.controls[name];
  this.controls[name] = control;
  control.setParent(this);
  control._registerOnCollectionChange(this._onCollectionChange);
  return control;
}

function addControl(name: string, control: AbstractControl): void {
  this.registerControl(name, control);
  this.updateValueAndValidity();
  this._onCollectionChange();
}

function removeControl(name: string): void {
  if (this.controls[name])
    this.controls[name]._registerOnCollectionChange(() => {});
  delete this.controls[name];
  this.updateValueAndValidity();
  this._onCollectionChange();
}

function setControl(name: string, control: AbstractControl): void {
  if (this.controls[name])
    this.controls[name]._registerOnCollectionChange(() => {});
  delete this.controls[name];
  if (control) this.registerControl(name, control);
  this.updateValueAndValidity();
  this._onCollectionChange();
}

function contains(controlName: string): boolean {
  return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;
}

function setValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._checkAllValuesPresent(value);
  Object.keys(value).forEach(name => {
    this._throwIfControlMissing(name);
    this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this.updateValueAndValidity(options);
}

function patchValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  Object.keys(value).forEach(name => {
    this._throwIfControlMissing(name);
    this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this.updateValueAndValidity(options);
}

The configuration options are passed to the {@link AbstractControl#updateValueAndValidity
updateValueAndValidity} method. * * * * onlySelf: When true, each change only affects this control, and not its parent. Default is
false. * * * * emitEvent: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated. * When false, no events are emitted.

The configuration options are passed to the {@link AbstractControl#updateValueAndValidity
updateValueAndValidity} method. * * * * onlySelf: When true, each change only affects this control, and not its parent. Default is
false. * * * * emitEvent: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated. * When false, no events are emitted.
emitEvent?: boolean} = {}):\n
void {\n Object.keys(value).forEach(name => {\n
if (this.controls[name]) {\n
this.controls[name].patchValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});\n
}\n });\n
this.updateValueAndValidity(options);\n }\n\n /**\n * Resets the `FormGroup`, marks all descendants are marked
`pristine` and `untouched`, and\n * the value of all descendants to null.\n *\n * You reset to a specific form state
by passing in a map of states\n * that matches the structure of your form, with control names as keys. The state\n
* is a standalone value or a form state object with both a value and a disabled\n * status.\n *\n * @param value
Resets the control with an initial value,\n * or an object that defines the initial value and disabled state.\n *\n *
@param options Configuration options that determine how the control propagates changes\n * and emits events
when the group is reset.\n * * `onlySelf`: When true, each change only affects this control, and not its parent.
Default is\n * false.\n * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and\n *
`valueChanges`\n * observables emit events with the latest status and value when the control is reset.\n * When
false, no events are emitted.\n * The configuration options are passed to the {@link
AbstractControl#updateValueAndValidity\n * updateValueAndValidity} method.\n *\n * @usageNotes\n *\n
* ### Reset the form group values\n *\n * ```ts\n * const form = new FormGroup({\n * first: new
FormControl('first name'),\n * last: new FormControl('last name')\n * });\n *\n * console.log(form.value); //
{first: 'first name', last: 'last name'}\n *\n * form.reset({ first: 'name', last: 'last name' });\n *\n *
console.log(form.value); // {first: 'name', last: 'last name'}\n * ```\n *\n * ### Reset the form group values and
disabled status\n *\n * ```\n * const form = new FormGroup({\n * first: new FormControl('first name'),\n *
last: new FormControl('last name')\n * });\n *\n * form.reset({\n * first: {value: 'name', disabled: true},\n *
last: 'last'\n * });\n *\n * console.log(this.form.value); // {first: 'name', last: 'last name'}\n *
console.log(this.form.get('first').status); // 'DISABLED'\n * ```\n */\n reset(value: any = {}, options: {onlySelf?:
boolean, emitEvent?: boolean} = {}): void {\n this._forEachChild((control: AbstractControl, name: string) => {\n
control.reset(value[name], {onlySelf: true, emitEvent: options.emitEvent});\n });\n
this._updatePristine(options);\n this._updateTouched(options);\n this.updateValueAndValidity(options);\n }\n\n
/**\n * The aggregate value of the `FormGroup`, including any disabled controls.\n *\n * Retrieves all values
regardless of disabled status.\n * The `value` property is the best way to get the value of the group, because\n * it
excludes disabled controls in the `FormGroup`.\n */\n getRawValue(): any {\n return this._reduceChildren(\n
{}, (acc: {[k: string]: AbstractControl}, control: AbstractControl, name: string) => {\n
acc[name] = control
instanceof FormControl ? control.value : (<any>control).getRawValue();\n
return acc;\n
});\n }\n\n /**
@internal */\n _syncPendingControls(): boolean {\n let subtreeUpdated = this._reduceChildren(false, (updated:
boolean, child: AbstractControl) => {\n
return child._syncPendingControls() ? true : updated;\n });\n if
(subtreeUpdated) this.updateValueAndValidity({onlySelf: true});\n return subtreeUpdated;\n }\n\n /** @internal
*/\n _throwIfControlMissing(name: string): void {\n if (!Object.keys(this.controls).length) {\n
throw new
Error(`\n
There are no form controls registered with this group yet. If you're using ngModel,\n
you may
want to check next tick (e.g. use setTimeout).\n
`);\n }\n if (!this.controls[name]) {\n
throw new
Error(`Cannot find form control with name: ${name}.`);\n }\n }\n\n /** @internal */\n _forEachChild(cb: (v:
any, k: string) => void): void {\n Object.keys(this.controls).forEach(k => cb(this.controls[k], k));\n }\n\n /**
@internal */\n _setUpControls(): void {\n this._forEachChild((control: AbstractControl) => {\n
control.setParent(this);\n
control._registerOnCollectionChange(this._onCollectionChange);\n });\n }\n\n /**
@internal */\n _updateValue(): void { (this as{value: any}).value = this._reduceValue(); }\n\n /** @internal */\n
_anyControls(condition: Function): boolean {\n let res = false;\n this._forEachChild((control: AbstractControl,
name: string) => {\n
res = res || (this.contains(name) && condition(control));\n });\n return res;\n }\n\n /**
@internal */\n _reduceValue() {\n return this._reduceChildren(\n
{}, (acc: {[k: string]: AbstractControl},
control: AbstractControl, name: string) => {\n
if (control.enabled || this.disabled) {\n
acc[name] =
control.value;\n
}\n
return acc;\n
});\n }\n\n /** @internal */\n _reduceChildren(initValue: any, fn:
Function) {\n let res = initValue;\n this._forEachChild(\n
(control: AbstractControl, name: string) => { res =
fn(res, control, name); });\n return res;\n }\n\n /** @internal */\n _allControlsDisabled(): boolean {\n for
(const controlName of Object.keys(this.controls)) {\n
if (this.controls[controlName].enabled) {\n
return

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The configuration options are passed to the `FormArray` method. When no events are emitted, the `FormArray` method performs strict checks, and throws an error if you try to set the value of a control that doesn’t exist or if you exclude the `onlySelf` option. The configuration options determine how the control propagates changes and emits events after the value changes. When true, each change only affects this control, and not its parent. Default `false` is `false` and `false`. When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated. When false, no events are emitted. The configuration options are passed to the `[@link AbstractControl#updateValueAndValidity] method.

```typescript
const arr = new FormArray([new FormControl(), new FormControl()]);
arr.setValue(['Nancy', 'Drew']);
arr.setValue(['Nancy', 'Drew'], {onlySelf: true, emitEvent: true});
```

### Reset the values for the controls in the form array

When false, no events are emitted. The configuration options are passed to the `[@link AbstractControl#updateValueAndValidity] method.

```typescript
arr.reset();
```

### Reset the values for the controls in the form array

When false, no events are emitted. The configuration options are passed to the `[@link AbstractControl#updateValueAndValidity] method.

```typescript
arr.setValue(['Nancy', 'Drew']);
arr.reset();
```

### Reset the values for the controls in the form array

When false, no events are emitted. The configuration options are passed to the `[@link AbstractControl#updateValueAndValidity] method.

```typescript
arr.reset(['Nancy', 'Drew']);
arr.setValue(['Nancy', 'Drew']);
arr.reset(['Nancy', 'Drew']);
```

### Reset the values for the controls in the form array

When false, no events are emitted. The configuration options are passed to the `[@link AbstractControl#updateValueAndValidity] method.
A function that handles a child control's reset. This function takes an array of values and
an options object. It resets the controls to these values, and updates the pristine, touched,
and valid state of the control. The function first iterates over each child control,
applying a reset method to each, then updates the pristine, touched, and validity.

```typescript
  resetValues(values: any[], options: {onlySelf: boolean, emitEvent: boolean}) {
    this._forEachChild((control: AbstractControl, index: number) => {
      control.reset(values[index], {onlySelf: true, emitEvent: options.emitEvent});
    });

    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
  }
```

### Raw Value

The raw value of the array, including any disabled controls. This method returns all values regardless of
disabled status.

```typescript
  getRawValue(): any[] {
    return this.controls.map((control: AbstractControl) => {
      return control
        instanceof FormControl
          ? control.value
          : (<any>control).getRawValue();
    });
  }
```

### Clear

Removes all controls in the `FormArray`. This method is useful for
removing all elements from a `FormArray`. It's a simpler and more efficient alternative to removing all
controls one by one.

```typescript
  clear(): void {
    if (this.controls.length < 1) return;

    this._forEachChild((control: AbstractControl) =>
      control._registerOnCollectionChange(() => {}));

    this.controls.splice(0);
    this.updateValueAndValidity();
  }
```

### Utility Methods

#### _throwIfControlMissing

A method that throws an error if a control
at a given index is missing.

```typescript
  _throwIfControlMissing(index: number): void {  
    if (!this.controls.length) {
      throw new Error(`
        There are no form controls registered with this array yet. If you're using ngModel,
        you may want to check next tick (e.g. use setTimeout).`);
    }
    if (!this.at(index)) {
      throw new Error(`Cannot find form control at index: ${index}`);
    }
  }
```

#### _allControlsDisabled

A method that checks if all controls in the `FormArray` are disabled.

```typescript
  _allControlsDisabled(): boolean {
    for (const control of this.controls) {
      if (control.enabled) return false;
    }
    return this.controls.length > 0 || this.disabled;
  }
```

### Constructor

The constructor initializes the `FormArray` instance.

```typescript
  constructor() {
    this._setUpControls();
    this._setUpFormContainer();
    this._checkAllValuesPresent(this.value);
  }
```

#### setUpFormContainer

A method to set up the form container.

```typescript
  _setUpFormContainer(): void {
    setUpFormContainer(this);  
    syncPendingControls(this);
  }
```

#### _checkAllValuesPresent

A method to check if all values are present.

```typescript
  _checkAllValuesPresent(value: any): void {  
    this._forEachChild((control: AbstractControl, i: number) => {
      if (value[i] === undefined) {
        throw new Error(`Must supply a value for form control at index: ${i}.`);
      }
    });
  }
```

### Value Getter

A method to get the value of the array.

```typescript
  get value(): any[] {
    return this.controls.map((control: AbstractControl, i) => {
      return control
        instanceof FormControl
          ? control.value
          : (<any>control).getRawValue();
    });
  }
```

### Value Setter

A method to set the value of the array.

```typescript
  set value(value: any[]) {
    this._checkAllValuesPresent(value);
    this._setValues(value);
  }
```

### FormArray

Function that initializes a `FormArray`
instance.

```typescript
  static createArray(formControl: FormControl, length: number): FormArray {
    return new FormArray(formControl, length);
  }
```

### Directive

An Angular directive that manages a form array.

```typescript
@Directive({  
  selector: '[appFormArray]',  
  host: {  
    '(ng_modelGroup)': 'setFormGroup();',  
  },
  inputs: ['value'],
  outputs: ['valueChange'],
  providers: [formDirectiveProvider],
})
export class NgModelGroup {  
  constructor(private _form: FormGroup, private _value: any) {  
    this._form.valueChange.subscribe((value) => this._value = value);  
  }
}
```

### FormControl

A class that represents a form control.

```typescript
export class FormControl {
  constructor(value: any, defaultValue?: any, asyncValidators?: any[], validators?: any[], validatorsFn?: Function) {
    this.value = value;
    this.defaultValue = defaultValue;
    this.asyncValidators = asyncValidators;
    this.validators = validators;
    this.validatorsFn = validatorsFn;
  }
```

### Form

A class that represents a form.

```typescript
export class Form {
  constructor(controls?: FormControls[], validators?: any[], validatorsFn?: Function) {
    this.controls = controls;
    this.validators = validators;
    this.validatorsFn = validatorsFn;
  }
```

### FormArray

A class that represents a form array.

```typescript
export class FormArray {
  constructor(controls?: FormControls[], validators?: any[], validatorsFn?: Function) {
    this.controls = controls;
    this.validators = validators;
    this.validatorsFn = validatorsFn;
  }
```

### FormControl

A class that represents a form control.

```typescript
export class FormControl {
  constructor(value: any, defaultValue?: any, asyncValidators?: any[], validators?: any[], validatorsFn?: Function) {
    this.value = value;
    this.defaultValue = defaultValue;
    this.asyncValidators = asyncValidators;
    this.validators = validators;
    this.validatorsFn = validatorsFn;
  }
```

### FormContainer

A class that represents a form container.

```typescript
export class FormContainer {
  constructor(private _form: FormGroup, private _value: any) {  
    this._form.valueChange.subscribe((value) => this._value = value);  
  }
```

### FormControls

A class that represents form controls.

```typescript
export class FormControls {
  constructor() {
  }
```

### FormGroup

A class that represents a form group.

```typescript
export class FormGroup {
  constructor(controls?: FormControls[], validators?: any[], validatorsFn?: Function) {
    this.controls = controls;
    this.validators = validators;
    this.validatorsFn = validatorsFn;
  }
```

### NG_ASYNC_VALIDATORS

An interface that represents asynchronous validators.

```typescript
export interface NG_ASYNC_VALIDATORS {
  validate(): Promise<any>;
}
```

### NG_VALIDATORS

An interface that represents validators.

```typescript
export interface NG_VALIDATORS {
  validate(control: AbstractControl): any;
```
validity status of the form, as well as user interaction properties like `dirty` and `touched`. To register child controls with the form, use `NgModel` with a `name` attribute. You may use `NgModelGroup` to create sub-groups within the form. If necessary, listen to the directive's `ngSubmit` event to be notified when the user has triggered a form submission. The `ngSubmit` event emits the original form submission event. In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the `FormsModule` but skip its usage in some forms, for example, to use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `formGroup` directive. Listing for form submission

The following example shows how to capture the form values from the `ngSubmit` event:

```html
<form [ngSubmit]="event =>...">
  ...
</form>
```
import {OnDestroy, OnInit} from '@angular/core';
import {FormGroup} from '../model';
import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {composeAsyncValidators, composeValidators, controlPath} from './shared';
import {AsyncValidatorFn, ValidatorFn} from './validators';

/**
 * @description
 * A base class for code shared between the `NgModelGroup` and `FormGroupName` directives.
 * @publicApi
 */
export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group
   * @internal
   */
  _parent !: ControlContainer;

  /**
   * @description
   * An array of synchronous validators for the group
   * @internal
   */
  _validators !: any[];

  /**
   * @description
   * An array of async validators for the group
   * @internal
   */
  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered before the instance is destroyed.
   * Removes the group from its parent group.
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */
  get control(): FormGroup {
    return this.formDirective!.getFormGroup(this);
  }

  /**
   * @description
   * The path to this group from the
top-level directive:

```typescript
*/* get path(): string[] {
    return controlPath(this.name ?? this.name.toString(), this._parent);
}
```

```typescript
*/* get formDirective(): Form|null {
    return this._parent ? this._parent.formDirective : null;
}
```

```typescript
*/* get getValidators(): ValidatorFn|null {
    return composeValidators(this._validators);
}
```

```typescript
*/* get getAsyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._asyncValidators);
}
```

```typescript
*/* get top-level directive:
```
```typescript
@Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[] } { 
  super();
  this._parent = parent;
  this._validators = validators;
  this._asyncValidators = asyncValidators;
  this._parent_type = parentType;
  if (!this._parent instanceof NgModelGroup) {
    throw new TemplateDrivenErrors.ngModelGroupParentException();
  }

  _checkParentType(): void { 
    if (this._parent instanceof NgForm) }
}

/**
 * @interface
 * @description
 * Creates a `FormControl` instance from a domain model and
 * binds it to a form control element.
 *
 * The `FormControl` instance tracks the value, user interaction, and
 * validation status of the control and keeps the view synced with the model. If used
 * within a parent form, the
 * directive also registers itself with the form as a child
 * control. This directive is used by itself or as part of
 * a larger form. Use the
 * selector to activate it.
 *
 * If you have a one-way binding
 * to `ngModel` with `[[]]` syntax, changing the value of the domain model in the
 * component
 * class sets the value in the view. If you have a two-way binding with `[[[]]]` syntax
 * (also known as
 * `banana-box syntax`), the value in the UI always syncs back to
 * the domain model in your class.
 *
 * To
 * inspect the properties of the associated `FormControl` (like validity state),
 * export the directive into a local template variable using `ngModel` as the key
 * (ex: `myVar=\n`),
 * and

** Notes:
- this is just one extra run no matter how many `ngModel` have been changed.
- this is a common problem when using `exportAs` for directives!
- an const resolvedPromise = ();
- The `FormControl` instance tracks the value, user interaction, and
 * validation status of the control and keeps the view synced with the model. If used
 * within a parent form, the
directive also registers itself with the form as a child
* control. This directive is used by itself or as part of
 * a larger form. Use the
 * selector to activate it.
 * If you have a one-way binding
 * to `ngModel` with `[[]]` syntax, changing the value of the domain model in the
 * component
 * class sets the value in the view. If you have a two-way binding with `[[[]]]` syntax
 * (also known as
 * `banana-box syntax`), the value in the UI always syncs back to
 * the domain model in your class.
 * To
 * inspect the properties of the associated `FormControl` (like validity state),
 * export the directive into a local template variable using `ngModel` as the key
 * (ex: `myVar=\n`),
 * and
```
form. This controls the display of the form, but doesn’t contain form data.

```html
<form>
  <input name="login" ngModel placeholder="Login" />
  <input type="checkbox" ngModel />
</form>
```

Setting the ngModel name attribute through options:

```html
<form>
  <input name="Login" ngModel />
</form>
```

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <input name="Nancy" ngModel />
</form>
```

This is not reflected in the type of the property because outside of templates, consumers should only deal with booleans. In templates, a string is allowed for convenience and to match the native `disabled` attribute semantics which can be observed on input elements.

```html
<form>
  <input type="checkbox" name="user" />
</form>
```

This static member tells the compiler that values of type `string` can also be assigned to the input in a template.

```html
<form>
  <input name="" ngModel />
</form>
```

The native `disabled` input to a `boolean`

```html
<form>
  <input type="checkbox" name="true" />
</form>
```

For internal use only.

```html
<form>
  <input name="false" ngModel />
</form>
```

## Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <input name="user" ngModel />
</form>
```

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <input name="" ngModel />
</form>
```

The native `disabled` input to a `boolean`

```html
<form>
  <input type="checkbox" name="true" />
</form>
```

For internal use only.

```html
<form>
  <input name="false" ngModel />
</form>
```

## Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <input name="user" ngModel />
</form>
```

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <input name="" ngModel />
</form>
```
The top-level directive for this control if present, otherwise null.

```typescript
get formDirective(): any {
  return this._parent ? this._parent.formDirective : null;
}
```

Synchronous validator function composed of all the synchronous validators

```typescript
get validator(): ValidatorFn|null {
  return composeValidators(this._rawValidators);
}
```

Async validator function composed of all the async validators registered with this

```typescript
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._rawAsyncValidators);
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.update.emit(newValue);
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _setUpControl(): void {
  this._setUpdateStrategy();
  this._isStandalone() ? this._setUpStandalone() : this.formDirective.addControl(this);
  this._registered = true;
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _setUpdateStrategy(): void {
  if (this.options && this.options.updateOn != null) {
    this.control._updateOn = this.options.updateOn;
  }
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _isStandalone(): boolean {
  return !this._parent || !!(this.options && this.options.standalone);
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _setUpStandalone(): void {
  setUpControl(this.control, this);
  this.control.updateValueAndValidity({emitEvent: false});
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _checkForErrors(): void {
  if (!this._isStandalone()) {
    this._checkParentType();
  }
  this._checkName();
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _checkParentType(): void {
  if (!(this._parent instanceof NgModelGroup) &&
      this._parent instanceof AbstractFormGroupDirective) {
    TemplateDrivenErrors.formGroupNameException();
  } else if (!!(this._parent instanceof NgModelGroup) && !(this._parent instanceof AbstractFormGroupDirective)) {
    TemplateDrivenErrors.modelParentException();
  }
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _checkName(): void {
  if (this.options && this.options.name) this.name = this.options.name;

  if (!this._isStandalone() && !this.name) {
    TemplateDrivenErrors.missingNameException();
  }
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _updateValue(value: any): void {
  resolvedPromise.then(() => { this.control.setValue(value, {emitViewToModelChange: false}); });
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _updateDisabled(changes: SimpleChanges) {
  const disabledValue = changes['isDisabled'].currentValue;

  const isDisabled = disabledValue === "false" ||
      (isDisabled & !this.control.disabled) ||
      (this.control.disabled) |
      (isDisabled & !this.control.disabled) ||
      (this.control.disabled); ||
  resolvedPromise.then(() => { if (isDisabled & !this.control.disabled) {
    this.control.disable();
  } else if (this.control.disabled) {
    this.control.enable();
  }
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _checkForErrors(): void {
  if (!this._isStandalone()) {
    this._checkParentType();
  }
  this._checkName();
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _checkParentType(): void {
  if (!(this._parent instanceof NgModelGroup) &&
      this._parent instanceof AbstractFormGroupDirective) {
    TemplateDrivenErrors.formGroupNameException();
  } else if (!!(this._parent instanceof NgModelGroup) && !(this._parent instanceof AbstractFormGroupDirective)) {
    TemplateDrivenErrors.modelParentException();
  }
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _checkName(): void {
  if (this.options && this.options.name) this.name = this.options.name;

  if (!this._isStandalone() && !this.name) {
    TemplateDrivenErrors.missingNameException();
  }
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _updateValue(value: any): void {
  resolvedPromise.then(() => { this.control.setValue(value, {emitViewToModelChange: false}); });
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _updateDisabled(changes: SimpleChanges) {
  const disabledValue = changes['isDisabled'].currentValue;

  const isDisabled = disabledValue === "false" ||
      (isDisabled & !this.control.disabled) ||
      (this.control.disabled) ||
      (isDisabled & !this.control.disabled) ||
      (this.control.disabled); ||
  resolvedPromise.then(() => { if (isDisabled & !this.control.disabled) {
    this.control.disable();
  } else if (this.control.disabled) {
    this.control.enable();
  }
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _checkForErrors(): void {
  if (!this._isStandalone()) {
    this._checkParentType();
  }
  this._checkName();
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _checkParentType(): void {
  if (!(this._parent instanceof NgModelGroup) &&
      this._parent instanceof AbstractFormGroupDirective) {
    TemplateDrivenErrors.formGroupNameException();
  } else if (!!(this._parent instanceof NgModelGroup) && !(this._parent instanceof AbstractFormGroupDirective)) {
    TemplateDrivenErrors.modelParentException();
  }
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _checkName(): void {
  if (this.options && this.options.name) this.name = this.options.name;

  if (!this._isStandalone() && !this.name) {
    TemplateDrivenErrors.missingNameException();
  }
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _updateValue(value: any): void {
  resolvedPromise.then(() => { this.control.setValue(value, {emitViewToModelChange: false}); });
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```typescript
private _updateDisabled(changes: SimpleChanges) {
  const disabledValue = changes['isDisabled'].currentValue;

  const isDisabled = disabledValue === "false" ||
      (isDisabled & !this.control.disabled) ||
      (this.control.disabled) ||
      (isDisabled & !this.control.disabled) ||
      (this.control.disabled); ||
  resolvedPromise.then(() => { if (isDisabled & !this.control.disabled) {
    this.control.disable();
  } else if (this.control.disabled) {
    this.control.enable();
  }
}
```
**Open Source Used In MSX SD-WAN Service Pack 4.0.0**

```typescript
import { AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn } from '../shared';
import { AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn } from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING = new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * * @see [FormControl]
 * * @see [AbstractControl]
 * * @see [FormControlBinding]
 * * @see [Form] # Registering a single form control
 * * The following examples shows how to register a standalone control and set its value.
 * * [{@example forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'}]
 * * Use with ngModel
 * * Support for using the `ngModel` input property and `ngModelChange` event with reactive
 * * form directives has been deprecated in Angular v6 and will be removed in a future version.
 * * Now deprecated:
 * * ```html
 * * <input [formControl]="control" [(ngModel)]="value">
 * * ```
 * * ```ts
 * * this.value = 'some value';
 * * ```
 * * This has been deprecated for a few reasons. First, developers have found
 * * this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it
 * * an input/output property named `ngModel` on the reactive form directive that simply
 * * approximates (some of) its behavior. Specifically, it allows getting/settng the value
 * * and intercepting value events. However, some of
 * * `ngModel`'s other features - like
 * * delaying updates with `ngModelOptions` or exporting the directive - simply
 * * don't work,
 * * which has understandably caused some confusion.
 * * In addition, this pattern mixes template-driven and reactive forms strategies, which
 * * we generally don't recommend because it doesn't take advantage of
 * * the full benefits of
 * * either strategy. Setting the value in the template violates the template-agnostic
 * * principles
 * * behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in
 * * the class removes the convenience
 * * of defining forms in the template.
 * * To update your code before support is removed, you'll want to decide
 * * whether to stick
 * * with reactive form directives (and get/set values using reactive forms patterns) or
 * * switch over to template-driven directives.
 * * After (choice 1 - use reactive forms):
 * * ```html
 * * <input [formControl]='form'>
 * * ```
 * * ```ts
 * * this.control.setValue('some value');
 * * ```
 * * After (choice 2 - use template-driven forms):
 * * ```html
 * * <input [(ngModel)]='value'>
 * * ```
 * * ```ts
 * * this.value = 'some value';
 * * ```
 * * This may help to track down where in the code the pattern is being
 * * used as the code is being updated.
 * * @ngModule ReactiveFormsModule
 * * @publicApi
 * * @Directive({selector: '[formControl]', providers: [formControlBinding],
 * * exportAs: 'ng FORM'})
 * * @FormControlDirective extends NgControl implements OnChanges {
 * * // A reactive formsModule' import time:
 * * ===ts\n * * imports: [\n * * ReactiveFormsModule.withConfig({[warnOnNgModelWithFormControl: 'never'])\n * * ]\n * * Alternatively, you can choose to surface a separate warning for each instance of this
 * * pattern with a config value of `\'always\'`. This may help to track down where in the code
 * * the pattern is being used as the code is being updated.
 * * ```html
 * * viewModel: any;\n * * @description\n * * @internal
 * * Tracks the
 * * FormControl' instance bound to the directive.
 * * ```html
 * * // TODO(issue/24571): remove `@Input';
 * * ```ts
 * * Triggers a warning that this input should not be used with
 * * reactive forms.
 * * ```html
 * * @Input\'sDisabled');\n * * set isDisabled(isDisabled: boolean) {\n * * ReactiveErrors\'disabledAttrWarning();\}
 * * ```html
 * * // TODO(kara): remove next 4 properties once depreciation period is
 * * over\n * * @deprecated as of v6 @Input\'ngModel\' model: any;\n * * ```html
 * * @Output\'ngModelChange\') update = new EventEmitter();\n * * @description\n * * Static property used to track whether any ngModel warnings have been sent across\n * * all instances of FormControlDirective. Used to support warning config of \'\'once\'\'.
 * * ```ts
 * * @internal\n * * static ngModelWarningSentOnce = false;\n * * ```ts
 * * Instance property used to track whether an ngModel warning has been sent out for this
 * * particular `FormControlDirective' instance. Used to support warning config of \'always\'.
 * * ```ts
 * * @internal\n * * _ngModelWarningSent = false;\n * * ```ts
 * * constructor(@Optional() @Self) @Inject(NG VALIDATORS)
 * * validators: Array<Validator|ValidatorFn>,\n * * ```ts
 * * @Optional() @Self @Inject(NG_ASYNC_VALIDATORS)\n * * asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n * * ```ts
 * * @Optional() @Self()
@Inject(NG_VALUE_ACCESSOR)
  valueAccessors: ControlValueAccessor[]; @Optional()
@Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string[null] {  
  super();  
  this._rawValidators = validators || []; 
  this._rawAsyncValidators = asyncValidators || [];  
  this.valueAccessor = selectValueAccessor(this, valueAccessors); 
  /*@*/
  * @description
  * A lifecycle method called when the directive's inputs change. For internal use only.
  * @param changes A object of key/value pairs for the set of changed inputs.
  */
  ngOnChanges(changes: SimpleChanges): void {  
    this.form.updateValueAndValidity({emitEvent: false});  
    if (this._isControlChanged(changes)) {  
      setUpControl(this.form, this);  
      if (this.control.disabled && this.valueAccessor!.setDisabledState) {  
        this.valueAccessor!.setDisabledState!(true);  
      }  
      this.form.updateValueAndValidity(({emitEvent: false}));  
      if (isPropertyUpdated(changes, this.viewModel)) {  
        _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
        this.form.setValue(this.model);
        this.viewModel = this.model;
      }
    }
  }

  /**
   * @description
   * Returns an array that represents the path from the top-level form to this control.
   * Each index is the string name of the control on that level.
   */
  get path(): string[] { return []; }

  /**
   * @description
   * Synchronous validator function composed of all the synchronous validators registered with this directive.
   */
  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  /**
   * @description
   * Async validator function composed of all the async validators registered with this directive.
   */
  get asyncValidator(): AsyncValidatorFn|null {
    return composeAsyncValidators(this._rawAsyncValidators);
  }

  /**
   * @description
   * The `FormControl` bound to this directive.
   */
  get control(): FormControl { return this.form; }

  /**
   * @description
   * Sets the new value for the view model and emits an `ngModelChange` event.
   */
  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

  private _isControlChanged(changes: {[key: string]: any}): boolean {
    return changes.hasOwnProperty('form');
  }

  /**
   * @license
   * Copyright Google Inc. All Rights Reserved.
   *
   * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
   */
import {Directive, EventEmitter, Inject, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from '../../validators';
import {ControlContainer} from '../control_container';
import {Form} from '../form_interface';
import {ReactiveErrors} from '../reactive_errors';
import {cleanUpControl, composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from '../shared';
import {FormControlName} from './form_control_name';
import {FormArrayName, FormGroupName} from './form_group_name';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupDirective)
};

/**
 * @description
 * Binds an existing `FormGroup` to a DOM element.
 *
 * This directive accepts an existing `FormGroup` instance. It will then use this `FormGroup` instance to match any child `FormControl`, `FormGroup`, and `FormArray` instances to child `FormControlName`, `FormGroupName`, and `FormArrayName` directives.
 *
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `AbstractControl`
 *
 * ### Register Form Group
 *
 * The following example registers a `FormGroup` with first name and last name controls, and listens for the `ngSubmit` event when the button is clicked.
 * The following example registers a `FormGroup` with first name and last name controls, and listens for the `ngSubmit` event when the button is clicked.
 */
@Directive({
  selector: '[formGroup]',
  providers: [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  exportAs: 'ngForm'}
export class FormGroupDirective extends ControlContainer implements Form, OnChanges {
  /**
   * @description
   * Reports whether the form submission has been triggered.
   */
  public readonly
submitted: boolean = false;

// TODO(issue/24571): remove '!'.
private _oldForm!: FormGroup;

  // TODO(issue/24571): remove '!'.
  private _oldForm!: FormGroup;

  /**
   * @description
   * Tracks the list of added `FormControlName` instances
   */
  directives: FormControlName[] = [];

  /**
   * @description
   * Tracks the `FormGroup` bound to this directive.
   */
  @Input('formGroup') form: FormGroup = null;

  /**
   * @description
   * Emits an event when the form submission has been triggered.
   */
  @Output() ngSubmit = new EventEmitter();

  /**
   * @description
   * A lifecycle method called when the directive's inputs change.
   * For internal use only.
   */
  @param changes A object of key/value pairs for the set of changed inputs.
  */
  ngOnChanges(changes: SimpleChanges): void {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  }

  /**
   * @description
   * Returns this directive's instance.
   */
  get formDirective(): Form { return this; }

  /**
   * @description
   * Returns the `FormGroup` bound to this directive.
   */
  get control(): FormGroup { return this.form; }

  /**
   * @description
   * Returns an array representing the path to this group.
   * Because this directive always lives at the top level of a form, it always an empty array.
   */
  get path(): string[] { return []; }

  /**
   * Method that sets up the control directive in this group, re-calculates its value
   * and validity, and adds the instance to the internal list of directives.
   */
  @param dir The `FormControlName` directive instance.
  */
  addControl(dir: FormControlName): FormControl {
    const ctrl: any = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  /**
   * Retrieves the `FormControlName` directive
   */
  getControl(dir: FormControlName): FormControl { return <FormControl>this.form.get(dir.path); }

  /**
   * Removes the `FormControlName` instance from the internal list of directives
   */
  @param dir The `FormGroupName` directive instance.
  */
  removeControl(dir: FormControlName): void { removeDir<FormControlName>(this.directives, dir); }

  /**
   * Adds a new `FormGroupName` directive instance to the form.
   */
  addFormGroup(dir: FormGroupName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
  }

  /**
   * No-op method to remove the form group.
   */
  removeFormGroup(dir: FormGroupName): void {}

  /**
   * @description
   * Retrieves the `FormArrayName` directive instance for a provided `FormGroupName` directive instance.
   */
  getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }

  /**
   * @description
   * Adds a new `FormArrayName` directive instance to the form.
   */
  addFormArray(dir: FormArrayName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
  }

  /**
   * No-op method to remove the form array.
   */
  removeFormArray(dir: FormArrayName): void {}

  /**
   * @description
   * Retrieves the 'FormArrayName' directive instance for a provided `FormGroupName` directive instance.
   */
  getFormArray(dir: FormArrayName): FormArray { return <FormArray>this.form.get(dir.path); }

  /**
   * Sets the new value for the provided `FormControlName` directive.
   */
  @param dir The `FormControlName` directive instance.
  */
  updateModel(dir: FormControlName, value: any): void {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
  }

  /**
   * @description
   * Method called when the \submit event is triggered on the form.
   */
  onSubmit($event: Event): boolean {
    (this as {submitted: boolean}).submitted = true;
    syncPendingControls(this.form, this.directives);
    this.ngSubmit.emit($event);
    return false;
  }

  /**
   * @description
   * Method called when the `reset` event is triggered on the form.
   */
  onReset(): void { this.resetForm(); }
the form to an initial value and resets its submitted status.

```typescript
resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
  this.directives.forEach(dir => {
    const newCtrl = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as {control: FormControl}).control = newCtrl;
    }
  });
  this.form._updateTreeValidity({emitEvent: false});
  this.private_updateRegistrations();
  if (this._oldForm) this._oldForm.registerOnChange(() => {});
  this._oldForm = this.form;
}
```

```typescript
_private_updateRegistrations() {
  this.form._registerOnCollectionChange(() => this._updateDomValue());
}
```

```typescript
private _updateValidators() {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator !, sync !]);
  const async = composeAsyncValidators(this._asyncValidators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator !, async !]);
}
```

```typescript
_formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};
```

```typescript
/**
 * @description
 * Tracks the name of the `FormGroup` bound to the directive. The name corresponds
 * to a key in the parent `FormGroup` or `FormArray`. In *number format, the name
 * of the form is useful for individual forms, *while the numerical format allows
 * for form groups to be bound to indices when iterating over groups in a `FormArray`
 */
@Input('formGroupName') name !: string | number | null;
```
FormArrayName);\n/**\n * @description\n * Syncs a nested `FormArray` to a DOM element.\n *\n * This directive is designed to be used with a parent `FormGroupDirective` (selector: `*[formGroup]`).\n *\n * It accepts the string name of the nested `FormArray` you want to link, and\n *\n * will look for a `FormArray` registered with that name in the parent\n * `FormGroup` instance you passed into `FormGroupDirective`.\n *\n * @see [Reactive Forms Guide][guide/reactive-forms]\n */

/**\n * @description\n *
 * Syncs a nested `FormArray` to a DOM element.
 *
 * This directive is designed to be used with a parent `FormGroupDirective` (selector: `*[formGroup]`).\n *\n * It accepts the string name of the nested `FormArray` you want to link, and\n *\n * will look for a `FormArray` registered with that name in the parent\n * `FormGroup` instance you passed into `FormGroupDirective`.\n *\n * @see [Reactive Forms Guide][guide/reactive-forms]\n */

function _hasInvalidParent(parent: ControlContainer): boolean {
  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
  !(parent instanceof FormArrayName);
}

function _ngModelWarning() {
  console.warn('FormArrayName: Use FormArray instead');
}

function composeAsyncValidators(validator: AsyncValidator[]): AsyncValidatorFn {
  return function (control: AbstractControl): AsyncValidatorFn {
    return asyncValidators(validator, control, formControl);\n  }\n}

function composeValidators(validator: Validator[]): ValidatorFn {
  return function (control: AbstractControl): ValidatorFn {
    return validators(validator, control, formControl);\n  }\n}

/**\n * @license
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 *
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 * https://angular.io/license
 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import
Register `FormControl` within a group

The following example shows how to register multiple form controls within a form group and set their value.

@example

forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'

To see `FormControlName` examples with different form control types, see:

Radio button:

Selects: `SelectControlValueAccessor` on * ### Use with NgModel

Support for using the `ngModel` input property and `ngModelChange` event with reactive form directives has been deprecated in Angular 6 and will be removed in a future version of Angular.

Now deprecated:

First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like `ngModel` delaying updates with `ngModelOptions` or exporting the directive - simply don't work.

In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in

the class removes the convenience of defining forms in the template.

To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives. In this case, you can use a form control element by name.

After (choice 1 - use reactive forms):

```html
<form [formGroup]='form'>
  <input formControlName='first'>
</form>
```

```ts
this.form.get('first').setValue('some value');
```
static _ngModelWarningSentOnce = false; * @description * Instance property used to track whether an ngModel warning has been sent out for this instance.Used to support warning config of "always". * @internal * @ngModelWarningSent = false; * @constructor @Optional() @Host() @SkipSelf() parent: ControlContainer; * @Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>, $ @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>, $ @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[]; * @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null = super(); * this._parent = parent; * this._rawValidators = validators || []; * this._rawAsyncValidators = asyncValidators || []; * this._ngModelWarningConfig = $; if (!this._added) this._setUpControl(); * if (isPropertyUpdated(changes, this.viewModel)) { _ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig); * this.viewModel = this.model; * this.formDirective.updateModel(this, this.model); * this.formDirective.removeControl(this); * Sets the new value for the view model and emits an 'ngModelChange' event. * * @description * Returns an array that represents the path from the top-level form to this control. * Each element in the array is the string name of the control on that level. * * @param newValue The new value for the view model. * * @param newValue: any * @returns void

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 Description of the map of errors returned from failed validation checks.

 * @param newValue: any * @returns ValidationErrors

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 Type ValidationErrors = { [key: string]: any; } * @description * An interface implemented by classes that perform synchronous validation.

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 Description of the top-level form to this control. Each element in the array is the string name of the control on that level.

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* Method that performs synchronous validation against the provided control.
  * @param control The control to validate against.
  * @returns A map of validation errors if validation fails.
  * otherwise null.
  * validate(control: AbstractControl): ValidationErrors|null;
  *
  * Registers a callback function to call when the validator inputs change.
  * @param fn The callback function
  * An interface implemented by classes that perform asynchronous validation.
  *
  * @usageNotes
  * Provide a custom async validator directive.
  * The following example implements the 'AsyncValidator' interface to create an async validator
  * directive with a custom error key.
  *
  * ```typescript
  * import { of as observableOf } from 'rxjs';
  *
  *
  * @Directive({
  *   selector: '[customAsyncValidator]',
  *   providers: [{
  *     provide: NG_ASYNC_VALIDATORS,
  *     useExisting: CustomAsyncValidatorDirective,
  *     multi: true
  *   }]
  * })
  * class CustomAsyncValidatorDirective implements AsyncValidator {
  *   validate(control: AbstractControl): Observable<ValidationErrors|null> {
  *     let observable = new Observable((observer: Observer<ValidationErrors|null>) => {
  *       observer.next({ custom: true });
  *     });
  *     return observable;
  *   }
  *   registerOnValidatorChange(fn: () => void) {
  *     this._onChange = fn;
  *   }
  * }
  *
  * @NgModule
  * export class AppModule {
  *   declare customAsyncValidator: CustomAsyncValidatorDirective;
  *   declare ngModule: NgModule;
  * }
  * ```
  *
  * @publicApi
  */

  /**
   * @description
   * An interface implemented by classes that perform asynchronous validation.
   *
   * @usageNotes
   *
   * ### Provide a custom async validator
   * Implement the 'AsyncValidator' interface to create an async validator.
   *
   * ```typescript
   * import { of as observableOf } from 'rxjs';
   *
   *
   * @Directive({
   *   selector: '[customAsyncValidator]',
   *   providers: [{
   *     provide: NG_ASYNC_VALIDATORS,
   *     useExisting: CustomAsyncValidatorDirective,
   *     multi: true
   *   }]
   * })
   * class CustomAsyncValidatorDirective implements AsyncValidator {
   *   validate(control: AbstractControl): Observable<ValidationErrors|null> {
   *     let observable = new Observable((observer: Observer<ValidationErrors|null>) => {
   *       observer.next({ custom: true });
   *     });
   *     return observable;
   *   }
   *   registerOnValidatorChange(fn: () => void) {
   *     this._onChange = fn;
   *   }
   * }
   *
   * @NgModule
   * export class AppModule {
   *   declare customAsyncValidator: CustomAsyncValidatorDirective;
   *   declare ngModule: NgModule;
   * }
   * ```
   *
   * @publicApi
   */

   /**
    * @description
    * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
    *
    * @publicApi
    */

   export const REQUIRED_VALIDATOR: StaticProvider = {
     provide: NG_VALIDATORS,
     useExisting: forwardRef(() => RequiredValidator),
     multi: true
   };
* Method that validates whether or not the checkbox has been checked. Returns the validation result if enabled, otherwise null.

* /\ Returns the validation result if enabled, otherwise null.

* Method that validates whether or not the checkbox has been checked. Returns the validation result if enabled, otherwise null.

* Method that validates whether or not the checkbox has been checked. Returns the validation result if enabled, otherwise null.

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* Method that validates whether or not the checkbox has been checked. Returns the validation result if enabled, otherwise null.
@description
* Registers a callback function to call when the validator inputs change.

@param fn The callback function

registerOnValidatorChange(fn: () => void): void {
  this._onChange = fn;
}

private _createValidator(): void {
  this._validator = Validators.minLength(
    typeof this.minlength == 'number' ?
    this.minlength : parseInt(this.minlength, 10));
}

registerOnValidatorChange(fn: () => void): void {
  this._onChange = fn;
}

private _createValidator(): void {
  this._validator = Validators.minLength(
    typeof this.minlength == 'number' ? this.minlength : parseInt(this.minlength, 10));
}

MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MaxLengthValidator),
  multi: true,
  validators: [MaxLengthValidator],
  ngOnChanges: (changes: SimpleChanges) => {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  },
  validator: Validators.maxLength(
    typeof this.maxlength == 'number' ? this.maxlength : parseInt(this.maxlength, 10));
}

export const PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true,
  validators: [PatternValidator],
  ngOnChanges: (changes: SimpleChanges) => {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  },
  validator: Validators.maxLength(
    typeof this.maxlength == 'number' ? this.maxlength : parseInt(this.maxlength, 10));
}
the LICENSE file at https://angular.io/license\n */\n\nimport {Injectable} from '@angular/core';\n\nimport
{AsyncValidatorFn, ValidatorFn} from './directives/validators';\nimport {AbstractControl, AbstractControlOptions,
FormArray, FormControl, FormGroup, FormHooks} from './model';\n\nfunction isAbstractControlOptions(options:
AbstractControlOptions | {[key: string]: any}):\n options is AbstractControlOptions {\n return
(<AbstractControlOptions>options).asyncValidators !== undefined ||\n
(<AbstractControlOptions>options).validators !== undefined ||\n
(<AbstractControlOptions>options).updateOn
!== undefined;\n}\n\n/**\n * @description\n * Creates an `AbstractControl` from a user-specified configuration.\n
*\n * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,\n *
`FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex\n * forms.\n *\n *
@see [Reactive Forms Guide](/guide/reactive-forms)\n *\n * @publicApi\n */\n@Injectable()\nexport class
FormBuilder {\n /**\n * @description\n * Construct a new `FormGroup` instance.\n *\n * @param
controlsConfig A collection of child controls. The key for each child is the name\n * under which it is registered.\n
*\n * @param options Configuration options object for the `FormGroup`. The object can\n * have two shapes:\n
*\n * 1) `AbstractControlOptions` object (preferred), which consists of:\n * * `validators`: A synchronous
validator function, or an array of validator functions\n * * `asyncValidators`: A single async validator or array of
async validator functions\n * * `updateOn`: The event upon which the control should be updated (options: 'change'
| 'blur' |\n * submit')\n *\n * 2) Legacy configuration object, which consists of:\n * * `validator`: A synchronous
validator function, or an array of validator functions\n * * `asyncValidator`: A single async validator or array of
async validator functions\n *\n */\n group(\n
controlsConfig: {[key: string]: any},\n
options:
AbstractControlOptions|{[key: string]: any}|null = null): FormGroup {\n const controls =
this._reduceControls(controlsConfig);\n\n let validators: ValidatorFn|ValidatorFn[]|null = null;\n let
asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;\n let updateOn: FormHooks|undefined =
undefined;\n\n if (options != null) {\n
if (isAbstractControlOptions(options)) {\n
// `options` are
`AbstractControlOptions`\n
validators = options.validators != null ? options.validators : null;\n
asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;\n
updateOn =
options.updateOn != null ? options.updateOn : undefined;\n
} else {\n
// `options` are legacy form group
options\n
validators = options['validator'] != null ? options['validator'] : null;\n
asyncValidators =
options['asyncValidator'] != null ? options['asyncValidator'] : null;\n
}\n }\n\n return new
FormGroup(controls, {asyncValidators, updateOn, validators});\n }\n\n /**\n * @description\n * Construct a
new `FormControl` with the given state, validators and options.\n *\n * @param formState Initializes the control
with an initial state value, or\n * with an object that contains both a value and a disabled status.\n *\n * @param
validatorOrOpts A synchronous validator function, or an array of\n * such functions, or an
`AbstractControlOptions` object that contains\n * validation functions and a validation trigger.\n *\n * @param
asyncValidator A single async validator or array of async validator\n * functions.\n *\n * @usageNotes\n *\n
* ### Initialize a control as disabled\n *\n * The following example returns a control with an initial value in a
disabled state.\n *\n * <code-example path=\"forms/ts/formBuilder/form_builder_example.ts\" region=\"disabledcontrol\">\n * </code-example>\n */\n control(\n
formState: any, validatorOrOpts?:
ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n
asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null): FormControl {\n return new FormControl(formState,
validatorOrOpts, asyncValidator);\n }\n\n /**\n * Constructs a new `FormArray` from the given array of
configurations,\n * validators and options.\n *\n * @param controlsConfig An array of child controls or control
configs. Each\n * child control is given an index when it is registered.\n *\n * @param validatorOrOpts A
synchronous validator function, or an array of\n * such functions, or an `AbstractControlOptions` object that
contains\n * validation functions and a validation trigger.\n *\n * @param asyncValidator A single async
validator or array of async validator\n * functions.\n */\n array(\n
controlsConfig: any[],\n
validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n
asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null): FormArray {\n const controls = controlsConfig.map(c =>
this._createControl(c));\n return new FormArray(controls, validatorOrOpts, asyncValidator);\n }\n\n /**

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import {InjectionToken, forwardRef, Directive, Renderer2, ElementRef, getDOM, Optional, Inject, Self, forkJoin, map, isPromise, from, isObservable, Injectable, Input, Injector, Examples, looseIdentical, Host, _buildValueString, _extractId, isDevMode, EventEmitter, SkipSelf, resolvedPromise, Output, formControlBinding, formDirectiveProvider, NgNoValidate, NgSelectMultipleOption, NgModule, Version, InternalFormsSharedModule} from '@angular/core';

export {formArrayNameProvider as ɵangular_packages_forms_forms_u, formGroupNameProvider as ɵangular_packages_forms_forms_t} from './src/directives/reactive_directives/form_group_name';
export {SELECT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_v} from './src/directives/select_control_value_accessor';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_x, SELECT_MULTIPLE_VALUE_ACCESSOR as ɵangular_packages_forms_forms_w} from './src/directives/select_multiple_control_value_accessor';
export {CHECKBOX_REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_ba, EMAIL_VALIDATOR as ɵangular_packages_forms_forms_bb, MAX_LENGTH_VALIDATOR as ɵangular_packages_forms_forms_bc, MIN_LENGTH_VALIDATOR as ɵangular_packages_forms_forms_bd, PATTERN_VALIDATOR as ɵangular_packages_forms_forms_be, REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_z} from './src/directives/validators';
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No license file was found, but licenses were detected in source scan.

```javascript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found
 * in the LICENSE file at https://angular.io/license
 */

import {InjectionToken} from '@angular/core';

/**
 *
 * Defines an interface that acts as a bridge between the Angular forms API and a
 * native element
 * in the DOM.
 *
 * Implement this interface to create a custom form control directive
 * that integrates with
 * Angular forms.
 *
 * @see DefaultValueAccessor
 *
 * @publicApi
 */
export interface ControlValueAccessor {
  /**
   * @description
   * Writes a new value to the element.
   *
   * This method is
   * called by the forms API to write to the view when programmatic
   * changes from model to view are requested.
   *
   * @usageNotes
   * ### Write a value to the element
   *
   * The following example writes a value to the
   * native DOM element.
   *
   * ```ts
   * writeValue(value: any): void {
   *   this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
   * }
   * ```
   *
   * @param obj
```
The new value for the element

```typescript
  writeValue(obj: any): void;
```

```typescript
  registerOnChange(fn: (_: any) => void): void;
```

```typescript
  registerOnTouched(fn: any): void;
```

```typescript
  setDisabledState?(isDisabled: boolean): void;
```

```typescript
export const NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');
```

```typescript
import {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const CHECKBOX_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => CheckboxControlValueAccessor),
  multi: true,
};
```

```typescript
@Directive({
  selector: '[type=checkbox][formControl],[type=checkbox][formControlName],[type=checkbox][ngModel]',
  host: {'(change)': 'onChange($event.target.checked)', '(blur)': 'onTouched()'},
  providers: [CHECKBOX_VALUE_ACCESSOR]
})
export class CheckboxControlValueAccessor implements ControlValueAccessor {
  /**
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  /**
   * Sets the "checked" property on the input element.
   */
  writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
  }

  /**
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn;
  }

  /**
   * Registers a function called by the forms API on initialization to update the form model when values propagate from the view to the model.
   */
  registerOnTouched(fn: (any) => void): void {
    this.onTouched = fn;
  }

  /**
   * Registers a callback function called by the forms API on initialization to update the form model on blur.
   */
  registerOnTouched(fn: any): void {
    this.onTouched = fn;
  }
```

```typescript
export const NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');
```
function called when the control is touched.

```javascript
@registerOnTouched(fn: () => {}): void { this.onTouched = fn; }
```

**Sets the `disabled` property on the input element.**

```javascript
@license
* Copyright Google Inc. All Rights Reserved.*
```

We must check whether the agent is Android because composition events on iOS and Android behave differently. Android

```javascript
@ngModule ReactiveFormsModule
@ngModule FormsModule
@publicApi
```

Whether the user is creating a composition string (IME events). *An private_composing = false;* `constructor(\n
```javascript
private _renderer: Renderer2, private _elementRef: ElementRef",
```

```javascript
@Optional()
@Inject(COMPOSITION_BUFFER_MODE)
```

```javascript
private _compositionMode: boolean) {
  if (this._compositionMode == null) {
    this._compositionMode = !_isAndroid();
  }
```

```javascript
const DEFAULT_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
```

```javascript
@isAndroid(): boolean {
  const userAgent = getDOM() ? getDOM().getUserAgent() : '';
```

```javascript
const firstNameControl = new FormControl();
```
Reports whether a control is pending, meaning that async validation is occurring and errors are not yet available for the input value. If the control is not present, null is returned.

```typescript
/**
 * @description
 * Reports whether the control is invalid, meaning that an error exists in the input value.
 * If the control is not present, null is returned.
 */
get invalid(): boolean|null {
  return this.control ? this.control.invalid : null;
}
```

For the valid property, which checks if the control is valid, the implementation is as follows:

```typescript
/**
 * @description
 * Reports whether the control is valid. A control is considered valid if no validation errors exist with the current value.
 * If the control is not present, null is returned.
 */
get valid(): boolean|null {
  return this.control ? this.control.valid : null;
}
```

The untouched property, which checks if the control is pristine (i.e., the user hasn't changed the value yet), is implemented as:

```typescript
/**
 * @description
 * Reports whether the control is pristine, meaning that the user has not yet changed the value in the UI.
 * If the control is not present, null is returned.
 */
get pristine(): boolean|null {
  return this.control ? this.control.pristine : null;
}
```

The status property, which returns the validation status of the control, is defined as follows:

```typescript
/**
 * @description
 * Reports the validation status of the control. Possible values include:
 * 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.
 * If the control is not present, null is returned.
 */
get status(): string|null {
  return this.control ? this.control.status : null;
}
```

The touched property, which checks if the control is touched (i.e., has triggered a 'blur' event), is implemented as:

```typescript
/**
 * @description
 * Reports whether the control is touched, meaning that the user has triggered a 'blur' event on it.
 * If the control is not present, null is returned.
 */
get touched(): boolean|null {
  return this.control ? this.control.touched : null;
}
```

The disabled property, which checks if the control is disabled (i.e., excluded from validation checks), is defined as:

```typescript
/**
 * @description
 * Reports whether the control is disabled, meaning that the control is disabled in the UI and is exempt from validation checks and excluded from aggregate values of ancestor controls.
 * If the control is not present, null is returned.
 */
get disabled(): boolean|null {
  return this.control ? this.control.disabled : null;
}
```

The enabled property, which checks if the control is enabled, is implemented as:

```typescript
/**
 * @description
 * Reports whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value.
 * If the control is not present, null is returned.
 */
get enabled(): boolean|null {
  return this.control ? this.control.enabled : null;
}
```

The getChanges method, which returns an array representing the validation errors for the control when they occur, is defined as:

```typescript
/**
 * @description
 * Returns a multicasting observable that emits value changes for the control that emits every time the value of the control changes in the UI or programmatically.
 * If the control is not present, null is returned.
 */
get valueChanges(): Observable<any>|null {
  return this.control ? this.control.valueChanges : null;
}
```

The getErrors method, which returns the validation errors for the control if any exist, is implemented as:

```typescript
/**
 * @description
 * Returns an array that represents the path from the top-level form to this control.
 * Each index is the string name of the control on that level.
 */
get path(): string[]|null {
  return this.control ? this.control.path : null;
}
```

And the getCompositionEnd method, which reports the end of composition, is defined as:

```typescript
/**
 * @description
 * Reports the end of composition.
 */
getCompositionEnd(): void {
  this._compositionEnd = true;
}
```
list of control names that designates how to move from the current control \n * to the control that should be queried for errors.

 * For example, for the following `FormGroup`:

   ```
   form = new
   FormGroup({
   address: new FormGroup()
   });
   ```

   * The path to the 'street' control from the root form would be 'address' -> 'street'.

   * It can be provided to this method in one of two formats:

     1. An array of string control names, e.g. `['address', 'street']`
     2. A period-delimited list of control names in one string, e.g. `'address.street'`

   * If no path is given, this method checks for the error on the current control.

   * `returns` whether the given error is present in the control at the given path.

   * If the control is not present, false is returned.

   * `hasError(errorCode: string, path?: any[])` - Reports error data for the control with the given path.

   * `getError(errorCode: string, path?: any[])` - Error data for that particular error. If the control or error is not present, null is returned.

   * `name` - The name for the control.

   * `form` - The top-level form directive for the control.

   * `path` - The path to this group.

   * `valueAccessor` - The value accessor for the control.

   * `validatorFn` - The synchronous validator function for the control.

   * `asyncValidatorFn` - The async validator function for the control.

   * `viewToModelUpdate` - The callback method to update the model from the view when requested.

   * `null` - The unimplemented value accessor for the control.

   * `null` - The unimplemented synchronous validator function for the control.

   * `null` - The unimplemented async validator function for the control.

   * `null` - The new value accessor for the control.

   * `null` - The new value accessor for the control.

   * `null` - The unimplemented synchronous validator function for the control.

   * `null` - The unimplemented async validator function for the control.

   * `null` - The new value accessor for the control.

   * `null` - The new value accessor for the control.

   * `null` - The unimplemented synchronous validator function for the control.

   * `null` - The unimplemented async validator function for the control.

   * `null` - The new value accessor for the control.

   * `null` - The new value accessor for the control.

   * `null` - The unimplemented synchronous validator function for the control.

   * `null` - The unimplemented async validator function for the control.

   * `null` - The new value accessor for the control.
export class AbstractControlStatus {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) {
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

export const ngControlStatusHost = {
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};

/**
 * @description
 * Directive automatically applied to Angular form
 * controls that sets CSS classes based on control status
 * (valid/invalid/dirty/etc).
 * 
 * @see `NgControlStatus`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '
    [formControlName],
    [ngModel],
    [formControl],
    [formGroupName],
    [formArrayName],
    [ngModelGroup],
    [formGroup],
    form:not([ngNoForm]),
    [ngForm],
  ',
  host: ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

/**
 * An `InjectionToken` for registering additional
 * synchronous validators used with `AbstractControl`s.
 *
 * @see `NG_VALIDATORS`
 *
 * @usageNotes
 *
 * ### Providing a custom validator
 *
 * The following example registers a custom validator
directive. Adding the validator to the existing collection of validators requires the `multi: true` option.
```typescript
@Directive({
  selector: '
    [customValidator]
  ',
  providers: [{provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true}]
})
class CustomValidatorDirective implements Validator {
  validate(control: AbstractControl): ValidationErrors | null {
    return { 'custom': true };
  }
}
```
 *
 * @publicApi
 */
export const NG_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgValidators');

/**
 * An `InjectionToken` for registering additional asynchronous validators used with `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
 * where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols)
 * - `local-part` cannot begin or end with a period (`.`)
 */

isEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return null == value || value.length === 0 || isEmptyInputValue(value);
Open Source Used In MSX SD-WAN Service Pack 4.0.0

* - `tld` consists of one or more `labels` separated by periods (`.`). For example `localhost` or `foo.com`. A `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)).
* - A `label` cannot begin or end with a dash (`-`) or a period (`.`).
* - `A label` cannot be longer than 63 characters.
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* ## Implementation

background

This regexp was ported over from AngularJS (see there for git history): https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27

* It is based on the WHATWG version (https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address). The main differences from the WHATWG version are: Disallow 'local-part' to begin or end with a period (`.`). Disallow 'local-part' length to exceed 64 characters. Disallow total address length to exceed 254 characters. See [what commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.

```
const EMAIL_REGEXP =
    /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+(?:\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+)*@[a-zA-Z0-9-]+(?:\.[a-zA-Z0-9-]+)\.[a-zA-Z0-9-]+)$/;
```

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* - A `label` cannot be longer than 63 characters.
* - The whole address cannot be longer than 254 characters.
@returns An error map that contains the `required` property set to `true` if the validation check fails, otherwise `null`.  

```typescript
const control = new FormControl('bad@', Validators.email);

console.log(control.errors); // {email: true}
```

The differences from the WHATWG specification include:  
- Disallow local-part (the part before the `@` symbol) to begin or end with a period (`.`).
- Disallow local-part to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.

```typescript
const control = new FormControl('Angular', Validators.pattern('^[a-zA-Z ]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z ]*$', actualValue: 'Angular'}}
```

### Validate that the field matches a valid email pattern

```typescript
const control = new FormControl('bad@', Validators.email);

console.log(control.errors); // {email: true}
```

The pattern is based on the definition of a valid email address in the WHATWG HTML specification (https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).

```html
<input pattern="^[a-zA-Z ]*$">
```

```typescript
const control = new FormControl('bad@', Validators.email);

console.log(control.errors); // {email: true}
```

### Validate that the field only contains letters or spaces

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z ]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z ]*$', actualValue: 'bad@'}}
```

### Validate that the field has a minimum of 3 characters

```typescript
const control = new FormControl('bad@', Validators.minLength(3));

console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 4}}
```

### Validate that the field has a maximum of 3 characters

```typescript
const control = new FormControl('bad@', Validators.maxLength(3));

console.log(control.errors); // {maxlength: {requiredLength: 3, actualLength: 4}}
```

### Validate that the field has a minimum of 64 characters

```typescript
const control = new FormControl('bad@', Validators.minLength(64));

console.log(control.errors); // {minlength: {requiredLength: 64, actualLength: 65}}
```

### Validate that the field has a maximum of 254 characters

```typescript
const control = new FormControl('bad@', Validators.maxLength(254));

console.log(control.errors); // {maxlength: {requiredLength: 254, actualLength: 255}}
```

### Validate that the field matches a valid email pattern

```typescript
const control = new FormControl('bad@', Validators.email);

console.log(control.errors); // {email: true}
```

### Validate that the field contains letters, spaces, or hyphens

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z ]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z ]*$', actualValue: 'bad@'}}
```

### Validate that the field starts or ends with a period

```typescript
const control = new FormControl('bad@.', Validators.pattern('^[a-zA-Z ]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z ]*$', actualValue: 'bad@.'}}
```

### Validate that the field does not contain special characters

```typescript
const control = new FormControl('bad@!', Validators.pattern('^[a-zA-Z ]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z ]*$', actualValue: 'bad@!'}}
```

### Validate that the field contains a valid email

```typescript
const control = new FormControl('bad@', Validators.email);

console.log(control.errors); // {email: true}
```

### Validate that the field contains only letters

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z]*$', actualValue: 'bad@'}}
```

### Validate that the field starts or ends with a letter

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z]*$', actualValue: 'bad@'}}
```

### Validate that the field contains only numbers

```typescript
const control = new FormControl('123', Validators.pattern('^[0-9]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[0-9]*$', actualValue: '123'}}
```

### Validate that the field starts or ends with a number

```typescript
const control = new FormControl('123', Validators.pattern('^[0-9]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[0-9]*$', actualValue: '123'}}
```

### Validate that the field contains only special characters

```typescript
const control = new FormControl('bad@', Validators.pattern('^[!@#$%^&*()]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[!@#$%^&*()]*$', actualValue: 'bad@'}}
```

### Validate that the field starts or ends with a special character

```typescript
const control = new FormControl('bad@', Validators.pattern('^[!@#$%^&*()]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[!@#$%^&*()]*$', actualValue: 'bad@'}}
```

### Validate that the field contains a valid URL

```typescript

```

### Validate that the field contains only letters or numbers

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z0-9]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z0-9]*$', actualValue: 'bad@'}}
```

### Validate that the field starts or ends with a letter or number

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z0-9]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z0-9]*$', actualValue: 'bad@'}}
```

### Validate that the field contains only letters or special characters

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z!@#$%^&*()]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z!@#$%^&*()]*$', actualValue: 'bad@'}}
```

### Validate that the field starts or ends with a letter or special character

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z!@#$%^&*()]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z!@#$%^&*()]*$', actualValue: 'bad@'}}
```

### Validate that the field contains only letters or letters and numbers

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z0-9]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z0-9]*$', actualValue: 'bad@'}}
```

### Validate that the field starts or ends with a letter or letter and number

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z0-9]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z0-9]*$', actualValue: 'bad@'}}
```

### Validate that the field contains only letters, numbers, or special characters

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z0-9!@#$%^&*()]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z0-9!@#$%^&*()]*$', actualValue: 'bad@'}}
```

### Validate that the field starts or ends with a letter, number, or special character

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z0-9!@#$%^&*()]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z0-9!@#$%^&*()]*$', actualValue: 'bad@'}}
```

### Validate that the field contains only letters, numbers, or special characters

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z0-9!@#$%^&*()]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z0-9!@#$%^&*()]*$', actualValue: 'bad@'}}
```

### Validate that the field starts or ends with a letter, number, or special character

```typescript
const control = new FormControl('bad@', Validators.pattern('^[a-zA-Z0-9!@#$%^&*()]*$'));

console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z0-9!@#$%^&*()]*$', actualValue: 'bad@'}}
```
validation check fails, otherwise `null`.

```typescript
*pattern(pattern: string|RegExp): ValidatorFn {
  if (!pattern) return Validators.nullValidator;
  let regex:
  RegExp;
  let regexStr: string;
  if (typeof pattern === 'string') {
    regexStr = '';

    if (pattern.charAt(0) !== '^') regexStr += '^';

    regexStr += pattern;

    if (pattern.charAt(pattern.length - 1) !== '$') regexStr += '$';

    regex = new RegExp(regexStr);
  } else {
    regexStr = pattern.toString();
    regex = pattern;
  }

  return (control: AbstractControl): ValidationErrors | null => {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const value: string = control.value;
    return regex.test(value) ? null :
                                 {'pattern': {'requiredPattern': regexStr,
                                    'actualValue': value}};
  };
}
```

```typescript
/**
 * @description
 * Validator that performs no operation.
 *
 * @see `updateValueAndValidity()`
 *
 */
static
nullValidator(control: AbstractControl): ValidationErrors|null {
  return null;
}
```

```typescript
/**
 * @description
 * Compose multiple validators into a single function that returns the
 * union of the individual error maps for the provided control.
 *
 * @returns A validator function that returns an error map with the
 * merged error maps of the async validators if the validation check fails, otherwise
 * `null`.
 *
 * @see `updateValueAndValidity()`
 *
 */
static compose(validators: (ValidatorFn|null|undefined)[]): ValidatorFn|null {
  if (!validators) return null;
  const presentValidators:
  ValidatorFn[] = validators.filter(isPresent) as any;

  if (presentValidators.length == 0) return null;

  return
  function(control: AbstractControl) {
    return _mergeErrors(_executeValidators(control, presentValidators));
  };
}
```

```typescript
/**
 * @description
 * Compose multiple async validators into a single function that returns
 * the union of the individual error objects for the provided control.
 *
 * @returns A validator function that returns an error map with the
 * merged error objects of the async validators if the validation check fails,
 * otherwise `null`.
 *
 * @see `updateValueAndValidity()`
 *
 */
static composeAsync(validators:
  (AsyncValidatorFn|null)[]): AsyncValidatorFn|null {
  if (!validators) return null;
  const presentValidators:
  AsyncValidatorFn[] = validators.filter(isPresent) as any;

  if (presentValidators.length == 0) return null;

  return
  function(control: AbstractControl) {
    return forkJoin(presentValidators.map(toObservable)).pipe(map(_mergeErrors));
  };
}
```

```typescript
function isPresent(o: any): boolean {
  return o != null;
}
```

```typescript
export function toObservable(r: any): Observable<any> {
  const obs = isPromise(r) ? from(r) : r;
  if (!(isObservable(obs))) {
    throw new
    Error(`Expected validator to return Promise or Observable.`);
  }
  return obs;
}
```

```typescript
function _executeValidators(control: AbstractControl, validators: ValidatorFn[]): any[] {
  return validators.map(v => v(control));
}
```

```typescript
function _executeAsyncValidators(control: AbstractControl, validators: AsyncValidatorFn[]): any[] {
  return validators.map(v => v(control));
}
```

```typescript
function _mergeErrors(arrayOfErrors: ValidationErrors[]): ValidationErrors|null {
  let res: {
  [key: string]: any
  } = {};

  // Not using Array.reduce here due to a Chrome 80
  // bug:https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  arrayOfErrors.forEach((errors:
  ValidationErrors | null) => {
    res = errors != null ? {...res !, ...errors} : res !;
  });

  return
  Object.keys(res).length === 0 ? null : res;
}
```

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```
any = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: forwardRef(() => NumberValueAccessor),
    multi: true
  },

@Directive({
  selector: '[formControlName], [formControl], [ngModel], [ngModelName], [ngModelNameInput]',
  host: {
    '[change]': 'onChange($event.target.value)',
    '[input]': 'onChange($event.target.value)',
    '[blur]': 'onTouched()'
  },
  providers: [NUMBER_VALUE_ACCESSOR]
})
export class NumberValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The registered callback function called when a change or input event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  /**
   * Sets the 'value' property on the input element.
   *
   * @param value The checked value
   */
  writeValue(value: number): void {
    // The value needs to be normalized for IE9, otherwise it is set to 'null' when null
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  /**
   * Registers a function called when the control value changes.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
  }

  /**
   * Sets the 'disabled' property on the input element.
   *
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}
```

```typescript
/**
 * @license
 *
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Directive, ElementRef, Injectable, Injector, OnInit, OnDestroy, Renderer2, forwardRef} from '@angular/core';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';

export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**
 * @description
 * The `ControlValueAccessor` for writing radio control values and listening to radio control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * Using a number input with a reactive form.
 * The following example shows how to use a number input with a reactive form.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 * Using radio buttons with reactive form directives.
 * The following example shows how to use radio buttons in a reactive form. When using radio buttons in a reactive form, you can access the values by using the `radioValue` property.
 */

@Directive({
  selector: '[radio]',
  host: {
    '(change)': 'onChange($event.target.value)',
    '(input)': 'onChange($event.target.value)',
    '(blur)': 'onTouched()'
  },
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The registered callback function called when a change or input event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  constructor(private _renderer: Renderer2, private _control: NgControl) {
    this._control.valueChanges.subscribe((value) => this.onChange(value));
  }

  /**
   * Sets the 'value' property on the input element.
   *
   * @param value The checked value
   */
  writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
  }

  /**
   * Registers a function called when the control value changes.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
  }

  /**
   * Sets the 'disabled' property on the input element.
   *
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}
```
form. Radio buttons in the same group should have the same `formControlName`. * Providing a `name` attribute is optional. *

* `[@example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive']` *

* `/** @ngModule ReactiveFormsModule */` *

* `@ngModule FormsModule` *

* `* @publicApi` *

` *@Directive({` *

`  selector: '#{name}',` *

`  input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',` *

`  host: {` *

`    (change): 'onChange()',` *

`    (blur): 'onTouched()',` *

`  },` *

`  providers: [RADIO_VALUE_ACCESSOR,]` *

`) export class RadioControlValueAccessor implements ControlValueAccessor,` *

`  OnDestroy, OnInit {` *

`    /** @internal */` *

`    _state !: boolean;` *

`    /** @internal */` *

`    _control !: NgControl;` *

`    /** @internal */` *

`    _fn !: Function;` *

`  }

`  /**` *

`   * @description` *

`   * The registered callback function called when a change event occurs on the input element.` *

`   */

`   onChange = () => {};

`   /**` *

`   * @description` *

`   * The registered callback function called when a blur` *

`   event occurs on the input element.` *

`   */

`   onTouched = () => {};

`   /**` *

`   * @description` *

`   * Tracks the name of the radio input element.` *

`   */

`   @Input() name !: string;` *

`   /**` *

`   * @description` *

`   * Tracks the name of the FormControl bound to the directive. The name corresponds` *

`   * to a key in the parent 'FormGroup' or 'FormArray'.` *

`   */

`   @Input()` *

`   formControlName !: string;` *

`   /**` *

`   * @description` *

`   * Tracks the value of the radio input element.` *

`   */

`   @Input()` *

`   value: any;` *

`   constructor(` *

`       private _renderer: Renderer2, private _elementRef: ElementRef,` *

`       private _registry: RadioControlRegistry, private _injector: Injector) {}` *

`   ngOnInit(): void {` *

`     this._control = this._injector.get(NgControl);` *

`     this._checkName();` *

`     this._registry.add(this._control, this);` *

`   }` *

`   ngOnDestroy(): void {` *

`     this._registry.remove(this);` *

`   }` *

`   writeValue(value: any): void {` *

`     this._state = value === this.value;` *

`     this._renderer.setProperty(this._elementRef.nativeElement, 'checked',` *

`     this._state);` *

`   }` *

`   registerOnChange(fn: (_: any) => {}): void {` *

`     this._fn = fn;` *

`   }` *

`   registerOnTouched(fn: () => {}): void {` *

`     this.onTouched = fn;` *

`   }` *

`   fireUncheck(value: any): void {` *

`     this.writeValue(value);` *

`   }` *

`   registerOnTouched(fn: () => {}): void {` *

`     this.onTouched = fn;` *

`   }` *

`   setDisabledState(isDisabled: boolean): void {` *

`     this._renderer.setProperty(this._elementRef.nativeElement,` *

`     'disabled', isDisabled);` *

`   }` *

`   private _checkName(): void {` *

`     if (this.name && this.formControlName &&` *

`     this.name !== this.formControlName) {` *

`       this._throwNameError();` *

`     }` *

`     if (!this.name &&` *

`     this.formControlName) this.name = this.formControlName;` *

`   }` *

`   private _throwNameError(): void {` *

`     throw` *

`     new Error(` *

`       If you define both a name and a formControlName attribute on your radio button,` *

`       their values` *

`       must match. Ex: <input type="radio" formControlName="food" name="food" >` *

`       <input type="radio">` *

`     `);` *

`   }` *

`   throw` *

`   new Error(` *

`   If you define both a name and a formControlName attribute on your radio button,` *

`   their values` *

`   must match. Ex: <input type="radio" formControlName="food" name="food" >` *

`   <input type="radio">` *

`   `);` *

`   }` *

`   throw`}

```typescript

```
FormErrorExamples = {
  formControlName: `
    <div 
        formControlName="firstName">
        <input formControlName="firstName">
    </div>

    In your class:

    this.myGroup = new FormGroup({
      firstName: new FormControl()
    });`},

  formGroupName: `
    <div 
        formGroupName="person">
          <input formControlName="firstName">
       </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
       person: new FormControl()
    });`},

  formArrayName: `
    <div 
        formArrayName="cities">
          <div *ngFor="let city of cityArray.controls; index as i">
              <input formControlName="i">
          </div>
      </div>
    </div>

    In your class:

    this.cityArray = new FormArray([new FormControl('SF')]);
    this.myGroup = new FormGroup({
      cities: this.cityArray
    });`,

  ngModelGroup: `
    <form>
       <div 
           ngModelGroup="person">
          <input ngModelGroup="person">
          <input [(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}" >
       </div>
    </form>`
and pass it an existing FormGroup instance (you can create one in your class).

Example:

```javascript
$[Examples.formArrayName>();

static disabledAttrWarning(): void {
  console.warn(' It looks like you're using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors.

Example: 

```javascript
form = new FormGroup({

  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),

  last: new FormControl('Drew', Validators.required)
});
```
The registered callback function called when a blur event occurs on the input element.

```typescript
onTouched = () => {};

/**
 * @description
 * Tracks the option comparison algorithm for tracking identities when checking for changes.
 * @param fn 
 * @throws Error('compareWith must be a function, but received'
 */

if (typeof fn !== 'function') {
  throw new Error('compareWith must be a function, but received
}

this._compareWith = looseIdentical;
constructor(private_renderer: Renderer2, private_elementRef: ElementRef) {}

/**
 * Sets the \`value\` property on the input element. The \`selectId\` property is also set if an ID is provided on the option element.
 * @param value
 * @throws Error
 * @return value
 */

this.writeValue(value: any): void {
  this.value = value;
  const id: string = this._getOptionId(value);
  if (id == null) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    const valueString = _buildValueString(id, value);
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }
}

/**
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 * @see `SelectControlValueAccessor`
 * @publicApi
 */
@Directive({selector: 'option'})
export class NgSelectOption implements OnDestroy {
  /**
   * Tracks the value bound to the option element. Unlike the value binding, `ngValue` supports
   * binding to objects.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select == null) return;
    this._select._optionMap.set(this.id, value);
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }
}
```

---

The callback function

```typescript
/**
 * On the control value changes.
 * @param fn
 */

fn(value: any) => {
  this.value = value;
  const id: string = this._getOptionId(value);
  if (id == null) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    const valueString = _buildValueString(id, value);
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }
}
```
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```javascript
valueString.split(':'[0][n\n]*\n** Mock interface for HTML Options */\ninterface HTMLOption {\n  name: string;\n  selected: boolean;\n}/* Mock interface for HTMLCollection */abstract class HTMLCollection {\n  // TODO(issue/24571): remove '!'.\n  length: number;\n  abstract item(_: _; number): HTMLOption;\n}/* @description\n* The `ControlValueAccessor` for writing multi-select control values and listening to multi-select control\n* changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and\n* `NgModel` directives.\n* @see `SelectControlValueAccessor`\n* @namespace @ngModule=reactiveFormsModule\n* @ngModuleFormsModule\n* @publicApi @Directive(\n* *\n* `select[multiple][formControlName],select[multiple][formControl][ngModel]`\n* )\n* host: {\n*  (change): \n*   `onChange(Seventarget)`\n*   ,\n*   (blur): `onTouched()`\n* }\n* providers:\n* `SELECT_MULTIPLE_VALUE_ACCESSOR`\n\n```
for (const id of Array.from(this._optionMap.keys())) {
  if (this._compareWith(this._optionMap.get(id) !._value, value)) return id;
}

/** @internal */
_function.prototype._getOptionValue = function(valueString: string): any {
  const id: string = this._extractId(valueString);
  return this._optionMap.has(id) ? this._optionMap.get(id) !._value : valueString;
}

/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when
 * options change.
 *
 * @see `SelectMultipleControlValueAccessor`
 */
@Directive({selector: 'option'})
export class ɵNgSelectMultipleOption implements OnDestroy {
  // TODO(issue/24571): remove !
  id !: string;
  _value: any;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) {
      this.id = this._select._registerOption(this);
    }
  }

  /**
   * @description
   * Tracks the value bound to the option.
   * Unlike the value binding, `ngValue` supports binding to objects.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select == null) return;
    this._value = value;
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**
   * @description
   * Tracks simple string values bound to the option.
   * For objects, use the `ngValue` input binding.
   */
  @Input('value')
  set value(value: any) {
    if (this._select) {
      this._value = value;
      this._setElementValue(_buildValueString(this.id, value));
      this._select.writeValue(this._select.value);
    } else {
      this._setElementValue(value);
    }
  }

  /**
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
    }
  }

  // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
  private _setElementValue(value: string): void {
    this._renderer.setProperty(this._element.nativeElement, 'value', value);
  }

  private _setSelected(selected: boolean) {
    this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
  }
}

export {ɵNgSelectMultipleOption as NgSelectMultipleOption};

import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {FormArray, FormControl, FormGroup} from '../model';
import {Validators} from '../validators';
import {AbstractControlDirective} from './abstract_control_directive';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {CheckboxControlValueAccessor} from './checkbox_value_accessor';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {DefaultValueAccessor} from './default_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function controlPath(name: string | null, parent: ControlContainer): string {
  return [...parent.path !, name !];
}

export function setUpControl(control: FormControl, dir: NgControl): void {
  if (!control) _throwError(dir, 'Cannot find control with');
  if (!dir.valueAccessor) _throwError(dir, 'No value accessor for form control with');

  control.validator = Validators.compose([control.validator !, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);

  setUpViewChangePipeline(control, dir);
  setUpModelChangePipeline(control, dir);
  setUpBlurPipeline(control, dir);
  if (dir.valueAccessor && dir.valueAccessor.writeValue) {
    dir.valueAccessor.writeValue(control.value);
  }
  if (dir.valueAccessor && dir.valueAccessor.setDisabledState) {
    dir.valueAccessor.setDisabledState((isDisabled: boolean) => {
      dir.valueAccessor.setDisabledState(isDisabled);
    });
  }
}

export function setUpViewChangePipeline(control: ControlValueAccessor, dir: NgControl): void {
  control.registerOnDisabledChange((isDisabled: boolean) => {
    dir.valueAccessor.setDisabledState(isDisabled);
  });
  if (dir.valueAccessor) {
    dir.valueAccessor.writeValue(control.value);
  }
  if (dir.modelChange != null) {
    dir.modelChange(control.model);
  }
  if (dir.viewChange != null) {
    dir.viewChange(control.view);
  }
}

function setUpModelChangePipeline(control: ControlValueAccessor, dir: NgControl): void {
  control.registerOnModelChange((value: any) => {
    if (value != null) {
      dir.valueAccessor.writeValue(value);
    }
  });
  if (dir.modelChange != null) {
    dir.modelChange(control.model);
  }
}

function setUpBlurPipeline(control: ControlValueAccessor, dir: NgControl): void {
  control.registerOnBlur((event: any) => {
    if (event != null) {
      dir.valueAccessor.writeValue(event);
    }
  });
}

function setUpOnDisabledChange(control: ControlValueAccessor, dir: NgControl): void {
  control.registerOnDisabledChange((isDisabled: boolean) => {
    dir.valueAccessor.setDisabledState(isDisabled);
  });
  if (dir.valueAccessor) {
    dir.valueAccessor.writeValue(control.value);
  }
  if (dir.modelChange != null) {
    dir.modelChange(control.model);
  }
  if (dir.viewChange != null) {
    dir.viewChange(control.view);
  }
}

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 * DAMAGE.
 */
null;\n\n if (!Array.isArray(valueAccessors))\n   _throwError(dir, 'Value accessor was not provided as an array for form control with');\n let defaultAccessor: ControlValueAccessor|undefined = undefined;\n let builtinAccessor: ControlValueAccessor|undefined = undefined;\n let customAccessor: ControlValueAccessor|undefined = undefined;\n valueAccessors.forEach((v: ControlValueAccessor) => \n   if (v.constructor !== DefaultValueAccessor)\n     defaultAccessor = v;\n   else if (isBuiltInAccessor(v)) \n     (builtinAccessor = v;\n      \n      _throwError(dir, 'More than one built-in value accessor matches form control with');\n    }\n    else if (isCustomAccessor(v))\n      customAccessor = v;\n  });\n
  if (customAccessor) return customAccessor;\n  if (builtinAccessor) return builtinAccessor;\n  if (defaultAccessor) return defaultAccessor;\n
  _throwError(dir, 'No valid value accessor for form control with');\n  return null;
}

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation period\nexport function _ngModelWarning(
    name: string,
    type: {_ngModelWarningSentOnce: boolean},
    instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;

  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

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 */

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
import {toObservable} from './validators';

/**
 * Reports that a FormControl is valid,
 * meaning that no errors exist in the input value.
 *
 * @see `status`
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 *
 * @see `status`
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async
 * validation is occurring and errors are not yet available for the input value.
 *\n * @see `markAsPending`
 * @see `status`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled, meaning that the control is exempt from ancestor
 * calculations of validity or value.
 *\n * @see `markAsDisabled`
 * @see `status`
 * @see `markAsPending`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0)
    return null;

  // Not using Array.reduce here due to a Chrome 80 bug
  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] : null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(
    validatorOrOpts?: ValidatorFn | ValidatorFn[],
    type: FormHooks = 'change' | 'blur' | 'submit'\n    interfaceFor options provided to an
The list of validators applied to a control.

The list of async validators applied to control.

The event name for control to update upon.

Updates the control.

It provides some of the shared behavior that all controls and groups of controls have, like running validators, calculating status, and resetting state. It also defines the properties that are shared between all sub-classes, like `value`, `valid`, and `dirty`. It shouldn't be instantiated directly.

The current value of the control.

For a `FormControl`, `FormGroup`, and `FormArray`, the values of enabled controls as an array.

The parent control.

The validation status of the control. There are four possible status values:

- **VALID**: This control has passed all validation checks.
- **INVALID**: This control has failed at least one validation check.
- **PENDING**: This control is in the midst of conducting a validation check.
- **DISABLED**: This control is exempt from validation checks.

These status values are mutually exclusive, so a control cannot be valid AND invalid or invalid AND disabled. The parent control. If a `FormGroup` or `FormArray` is made by concatenating groups or arrays, the status of the whole is the status of its contents.

Validity tests are performed from left to right; if any test passes, the control is `valid`, otherwise it is `invalid`

If the control status is `DISABLED`, the control is not included in the aggregate value of its ancestor controls.

The validation status is `DISABLED` when its status is `DISABLED`, `PENDING` or `INVALID`. A control is `PENDING` when its status is `PENDING`. A control is `DISABLED` when its status is `DISABLED` and is not included in any group or array.

A control is `DISABLED` if it has a status other than `DISABLED`, `PENDING` or `INVALID`. A control is `PENDING` when its status is `PENDING`. A control is `DISABLED` when its status is `DISABLED` and is not included in any group or array.

The `controls` array includes the control itself, so it is not included in the aggregate value of its ancestor controls.

A control is `DISABLED` if it has a status other than `DISABLED`, `PENDING` or `INVALID`. A control is `PENDING` when its status is `PENDING`. A control is `DISABLED` when its status is `DISABLED` and is not included in any group or array.

The `controls` array includes the control itself, so it is not included in the aggregate value of its ancestor controls.
value do not mark it dirty.

```typescript
public readonly pristine: boolean = true;

/**
 * A control is `dirty` if the user has changed the value or Programmatic changes to a control's value do not mark it dirty.

 */
public readonly pristine: boolean = true;

/**
 * A control is `dirty` if the user has changed the value in the UI; compare `pristine`.

 */
public readonly pristine: boolean = true;

/**
 * A multicasting observable that emits an event every time the value of the control changes, in the UI or programmatically. It also emits an event each time you call enable() or disable() without passing along [emitEvent: false] as a function argument.

 */
public readonly valueChanges!: Observable<any> * A multicasting observable that emits an event every time the validation status of the control recalculates.

 */
public readonly valueChanges!: Observable<any>;

/**
 * A multicasting observable that emits an event every time the validation status of the control recalculates.

 */
public readonly statusChanges!: Observable<any>;

/**
 * Reports the update strategy of the `AbstractControl` (meaning the event on which the control updates itself).

 */
get updateOn(): FormHooks {
  return this._updateOn ? this._updateOn : (this.parent ? this.parent.updateOn : 'change');
}

/**
 * Marks the control as `touched`. A control is `touched` once the user has triggered a `blur` event on it. Programmatic changes to a control's value do not mark it dirty.

 */
markAsTouched(): void {
  (this as {touched: boolean}).touched = true;

  if (this._parent && !opts.onlySelf) {
    this._parent.markAsTouched({onlySelf: true});
  }

  this._forEachChild((control: AbstractControl) => {
    control.markAllAsTouched();
  });
}

/**
 * Marks the control as `untouched`.

 */
markAsUntouched(): void {
  (this as {touched: boolean}).touched = false;

  this._pendingTouched = false;

  this._forEachChild((control: AbstractControl) => {
    control.markAllAsTouched();
    control._updateTouched();
  });
}
```

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Configuration options that determine how the control propagates changes and emits events after marking is applied.

* `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

markAsDirty(opts: {onlySelf?: boolean} = {}): void {
  this.pristine = false;
  if (this._parent && !opts.onlySelf) {
    this._parent.markAsDirty({onlySelf: true});
  }
}

markAsPristine(opts: {onlySelf?: boolean} = {}): void {
  this.pristine = true;
  this._pendingDirty = false;
  this._forEachChild((control: AbstractControl) => { control.markAsPristine({onlySelf: true}); });
}

markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this.status = PENDING;
  if (opts.emitEvent !== false) {
    this.statusChanges.emit(this.status);
  }
}

disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  // If parent has been marked artificially dirty we don't want to re-calculate the parent's dirtiness based on the children.
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);

  this.status = DISABLED;
  this.errors = null;
  this._forEachChild((control: AbstractControl) => { control.disable({...opts, onlySelf: true}); });
  this.updateValue();
}

enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  // If parent has been marked artificially dirty we don't want to re-calculate the parent's dirtiness based on the children.
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);

  this.status = VALID;
  this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });
}

The control emits an event with the latest status when the control is enabled.

* `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

* `emitEvent`: When true or not supplied (the default), the `statusChanges` observable emits an event with the latest status when the control is enabled.

* `valueChanges`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

* `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.

* `valueChanges`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled.
Sets the parent of the control

**`setParent(parent: FormGroup|FormArray): void`**

### When to use `setParent`
- **When a control is not in the hierarchy**, you can manually set its parent.
- **When a form control is nested** in an Angular form, you can use `setParent` to update the parent.

### Example
```typescript
const parentForm = new FormGroup({
  childControl: new FormControl('value')
});

parentForm.setParent(new FormGroup({
  childControl: new FormControl('newValue')
}));
```

### Notes
- Setting the parent updates the children with their new parent's context.
- It is recommended to use `setParent` when manually setting up a control's hierarchy.

---

The previous code snippet is a part of the implementation of a form control in Angular. It illustrates how to set the parent of a form control and handle various lifecycle events such as updates, validations, and changes in the control's state. This is crucial for maintaining the logical structure of forms in applications.
FormGroup({
   *   address: new FormGroup({ street: new FormControl() })
   * });
   * ```
   *
   * The path to
   * the 'street' control from the root form would be 'address' -> 'street'.
   *
   * It can be provided to this method in one of two formats:
   * * form = new FormGroup({
   *   address: new FormGroup({ street: new FormControl() })
   * });
   * ```
   * * The path to
   * the 'street' control from the root form would be 'address' -> 'street'.
   *
   * It can be provided to this method in one of two formats:
   * * form = new FormGroup({
   *   address: new FormGroup({ street: new FormControl() })
   * });
   * ```
   *
   * The path to
   * the 'street' control from the root form would be 'address' -> 'street'.
   *
   * It can be provided to this method in one of two formats:
   * * form = new FormGroup({
   *   address: new FormGroup({ street: new FormControl() })
   * });
   * ```
   *
   * The path to
   * the 'street' control from the root form would be 'address' -> 'street'.
   *
   * It can be provided to this method in one of two formats:
   * * form = new FormGroup({
   *   address: new FormGroup({ street: new FormControl() })
   * });
   * ```
   *
   * The path to
   * the 'street' control from the root form would be 'address' -> 'street'.
   *
   * It can be provided to this method in one of two formats:
   * * form = new FormGroup({
   *   address: new FormGroup({ street: new FormControl() })
   * });
   * ```
Angular forms, along with `FormGroup` and `FormArray`. It extends the `AbstractControl` class that implements most of the base functionality for accessing the value, validation status, user interactions and events. `@see` `AbstractControl` `@see` `Reactiv Forms Guide` `{guide/reactive-forms}` `@see` `Usage Notes` `{usage-notes}`

### Initializing Form Controls

Instantiate a `FormControl`, with an initial value.

```ts
const control = new FormControl('some value');
console.log(control.value);  // 'some value'
```

The following example initializes the control with a form state object. The value and disabled keys are required in this case.

```ts
const control = new FormControl({ value: 'n/a', disabled: true });
console.log(control.value);  // 'n/a'
```

Set the 'updateOn' option to 'blur' to update on the blur event.

```ts
const control = new FormControl({ updateOn: 'blur' });
```

Set the 'updateOn' option to submit on a submit event.

```ts
const control = new FormControl({ updateOn: 'submit' });
```

Reset the control back to an initial value.

```ts
const control = new FormControl('Nancy');
control.reset('Drew');
control.reset({ value: 'Drew', disabled: true });
```

### Reset the control back to an initial value and disabled

```ts
const control = new FormControl({ value: 'Drew', disabled: true });
control.reset({ value: 'Drew', disabled: true });
```

### Configure the control to update on a blur event

```ts
const control = new FormControl({ updateOn: 'blur' });
```

### Configure the control to update on a submit event

```ts
const control = new FormControl({ updateOn: 'submit' });
```

You reset to a specific form state by passing through a standalone value or a form state object that contains both a value and a disabled state.

```ts
const control = new FormControl('Nancy');
control.reset({ value: 'Drew', disabled: true });
```

### Reset the control back to an initial value and disabled

```ts
const control = new FormControl({ value: 'Drew', disabled: true });
```

### Set the updateOn option to update on a submit event

```ts
const control = new FormControl({ updateOn: 'submit' });
```

### Set the updateOn option to update on a submit event

```ts
const control = new FormControl({ updateOn: 'submit' });
```

### Set the updateOn option to update on a submit event

```ts
const control = new FormControl({ updateOn: 'submit' });
```

### Set the updateOn option to update on a submit event

```ts
const control = new FormControl({ updateOn: 'submit' });
```

### Set the updateOn option to update on a submit event

```ts
const control = new FormControl({ updateOn: 'submit' });
```
this._onChange.forEach((changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));

this.updateValueAndValidity(options);

/**
 * Patches the value of a control.
 *
 * This function is functionally the same as `FormControl.setValue` at this level.
 * It exists for symmetry with `FormGroup.patchValue` and `FormArrays`, where it
 * does behave differently.
 *
 * @param options
 * @param value
 *
 * @returns void
 */
patchValue(value: any, options: {
  onlySelf?: boolean,
  emitEvent?: boolean,
  emitModelToViewChange?: boolean,
  emitViewToModelChange?: boolean
} = {}): void {
  this.setValue(value, options);
}

/**
 * Resets
 * the form control, marking it `pristine` and `untouched`, and setting
 * the value to null.
 *
 * @param options
 * @param value
 *
 * @returns void
 */
reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._applyFormState(formState);
  this.markAsPristine(options);
  this.markAsUntouched(options);
  this.setValue(null, options);
  this._pendingChange = false;
  if (this.disabled)
    this.disable({onlySelf: true, emitEvent: false});
  this._clearChangeFns();
}

/**
 * Tracks the value and validity state of a group of `FormControl` instances.
 *
 * A `FormGroup` aggregates the values of each child `FormControl` into one object,
 * with each control name as the key. It calculates its status by reducing the status values
 * of its children. For example, if one of the controls in a group is invalid, the entire
 * group becomes invalid.
 *
 * `FormGroup` is one of the three fundamental building blocks
 * used to define forms in Angular.
 *
 * When instantiating a `FormGroup`, pass in a collection of child controls as the first
 * argument. The key for each child registers the
 * name for the control.
 *
 * ```
 * const form = new FormGroup({
 *   first: new FormControl('Nancy', Validators.minLength(2)),
 *   last: new FormControl('Drew'),
 * });
 *
 * console.log(form.value);  // {first: 'Nancy', last: 'Drew'}
 * console.log(form.status); // 'VALID'
 * ```
 *
 * You include group-level validators as the second arg, or group-level async
 * validators as the third arg. These
 * come in handy when you want to perform validation on a `FormGroup`
 * that considers the value of more than one control.
 *
 * ```
 * const form = new FormGroup({
 *   password: new FormControl('', Validators.minLength(2)),
 *   passwordConfirm: new FormControl('', Validators.minLength(2)),
 * }, passwordMatchValidator);
 *
 * function passwordMatchValidator(g: FormGroup) {
 *   return g.get('password').value === g.get('passwordConfirm').value
 *     ? null : {'mismatch': true};
 * }
 * ```
 *
 * Like a `FormControl`, you choose to pass in validators and async validators as part of an options object.

form = new FormGroup({'\n * password: new FormControl('',\n * passwordConfirm: new FormControl(''),\n * validators: [passwordMatchValidator, asyncValidators: otherValidator ]})\n * `### Set the updateOn property for all controls in a form group\n * The options object is used to set a default value for each child\n * control's `updateOn` property. If you set `updateOn` to "blur" at the\n * group level, all child controls default to 'blur', unless the child\n * has explicitly specified a different 'updateOn' value.\n * const c = new FormGroup({'\n * one: new FormControl(null),\n * updateOn: 'blur' });\n * @param publicApi\n * @export\n * A collection of child controls. The key for each child is the name\n * under which it is registered.\n * @param validatorOrOpts A synchronous validator function, or an array of\n * such functions, or an\n * 'AbstractControlOptions' object that contains validation functions\n * and a validation trigger.\n * @param asyncValidator A single async validator or array of\n * async validator functions\n * @constructor\n * @publicApi\n */
export class FormGroup extends AbstractControl {
  /**\n   * Creates a new `FormGroup` instance.\n   * \n   * @param controls A collection of child controls. The key for each child is the name\n   * \n   * @param validatorOrOpts A synchronous validator function, or an array of\n   * \n   * @param asyncValidator A single async validator or array of\n   * \n   * @constructor\n   * @publicApi\n */
export class FormGroup extends AbstractControl {
  /**\n   * Creates a new `FormGroup` instance.\n   * \n   * @param controls A collection of child controls. The key for each child is the name\n   * ...
its parent. Default is \* `false`. \* \* `emitEvent`. When true or not supplied (the default), both the
`statusChanges` and \* `valueChanges` observables emit events with the latest status and value when the
control value is updated. When false, no events are emitted.

```typescript
setValue(value: {
  [key: string]: any
}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._checkAllValuesPresent(value);
  Object.keys(value).forEach(name => {
    this._throwIfControlMissing(name);
    this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this.updateValueAndValidity(options);
}
```

The configuration options are passed to the `updateValueAndValidity` method. When true or not supplied (the default), both the `statusChanges` and \* `valueChanges` observables emit events with the latest status and value when the control value is updated. When false, no events are emitted. \* The configuration options are passed to the `updateValueAndValidity` method.

```typescript
patchValue(value: {
  [key: string]: any
}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  Object.keys(value).forEach(name => {
    if (this.controls[name]) {
      this.controls[name].patchValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  this.updateValueAndValidity(options);
}
```

### Patch the value for a form group

```typescript
patchValue(value: {
  [key: string]: any
}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  Object.keys(value).forEach(name => {
    if (this.controls[name]) {
      this.controls[name].patchValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  this.updateValueAndValidity(options);
}
```

### Reset the value for a form group

```typescript
reset(value: any = {}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._forEachChild((control: AbstractControl, name: string) => {
    control.reset(value[name], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this._updatePristine(options);
  this._updateTouched(options);
  this.updateValueAndValidity(options);
}
```

### Reset the group

```typescript
reset(value: any = {}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._forEachChild((control: AbstractControl, name: string) => {
    control.reset(value[name], {onlySelf: true, emitEvent: options.emitEvent});
  });
  this._updatePristine(options);
  this._updateTouched(options);
  this.updateValueAndValidity(options);
}
```

### Get raw value

```typescript
getRawValue(): any {
  return this._reduceChildren(
    {}, (acc: {
      [k: string]: AbstractControl
    }, control: AbstractControl, name: string) => {
      acc[name] = control
        .instanceof(FormControl)
        ? control.value
        : (<any>control).getRawValue();
      return acc;
    });
}
```
controls: AbstractControl[],
  validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null} { 
  super( 
    coerceToValidator(validatorOrOpts),
    coerceToAsyncValidator(asyncValidator, validatorOrOpts));
}

this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/*
 * Get the `AbstractControl` at the given `index` in the array.
 * * @param index Index in the array to retrieve the control
 * * @param onlySelf Whether to focus only on this control
 * * @param emitEvent Whether to emit event for this control
 * *
 * @returns AbstractControl
 */
get(index: number): AbstractControl { return this.controls[index]; }

/*
 * Insert a new `AbstractControl` at the end of the array.
 * * @param control Form control to be inserted
 * * @param onlySelf Whether to focus only on this control
 * * @param emitEvent Whether to emit event for this control
 * *
 * @returns AbstractControl
 */
push(control: AbstractControl): void {
  this.controls.push(control);
  this._registerControl(control);
  this.updateValueAndValidity();
  this._onCollectionChange();
}

/*
 * Insert a new `AbstractControl` at the given `index` in the array.
 * * @param index Index in the array to insert the control
 * * @param control Form control to be inserted
 * * @param onlySelf Whether to focus only on this control
 * * @param emitEvent Whether to emit event for this control
 * *
 * @returns AbstractControl
 */
insert(index: number, control: AbstractControl): void {
  this.controls.splice(index, 0, control);
  this._registerControl(control);
  this.updateValueAndValidity();
}

/*
 * Remove the control at the given `index` in the array.
 * * @param index Index in the array to remove the control
 * * @param onlySelf Whether to focus only on this control
 * * @param emitEvent Whether to emit event for this control
 * *
 * Returns the value of the control
 */
removeAt(index: number): void {
  if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
  this.controls.splice(index, 1);
  this.updateValueAndValidity();
}

/*
 * Replace an existing control.
 * * @param index Index in the array to replace the control
 * * @param control The `AbstractControl` control to replace the existing control
 * *
 * @returns AbstractControl
 */
setControl(index: number, control: AbstractControl): void {
  if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
  this.controls.splice(index, 1);
  if (control) {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
  }
  this.updateValueAndValidity();
  this._onCollectionChange();
}

/*
 * Length of the control array.
 */
get length(): number { return this.controls.length; }

/*
 * Sets the value of the `FormArray`. It accepts an array that matches the structure of the control.
 * * @param value Array of values for the controls
 * * @param options Configure options that determine how the control propagates changes and emits events after the value changes
 * * @param onlySelf Whether to focus only on this control
 * * @param emitEvent Whether to emit event for this control
 * *
 * @returns void
 */
setValue(value: any[], options: any = {}): void {
  this._checkAllValuesPresent(value);
  value.forEach((newValue: any, index: number) => {
    this.get(index)!.setValue(newValue, options);
  });
  this.updateValueAndValidity(options);
  this._onCollectionChange();
}

/*
 * Patches the value of the `FormArray`. It accepts an array that matches the structure of the control, and does its best to match the values to the correct controls in the group.
 * * @param value Array of latest values for the controls
 * * @param options Configure options that determine how the control propagates changes and emits events after the value changes
 * * @param onlySelf Whether to focus only on this control
 * * @param emitEvent Whether to emit event for this control
 * *
 * @returns void
 */
patchValue(value: any[], options: any = {}): void {
  this._checkAllValuesPresent(value);
  value.forEach((newValue: any, index: number) => {
    this.get(index)!.setValue(newValue, options);
  });
  this.updateValueAndValidity(options);
  this._onCollectionChange();
}

/*
 * The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.
 * * @link AbstractControl#updateValueAndValidity
 * *
 * @param value Array of latest values for the controls
 * * @param onlySelf Whether to focus only on this control
 * * @param emitEvent Whether to emit event for this control
 * *
 * @returns void
 */
updateValueAndValidity(options: any = {}): void {
  this._checkAllValuesPresent(options);
  options.forEach((newValue: any, index: number) => {
    this.get(index)!.setValue(newValue, options);
  });
  this.updateValueAndValidity(options);
  this._onCollectionChange();
}

/*
 * Checks if all values present in the `FormArray` are valid.
 * * @returns boolean
 */
allValid(): boolean {
  return this.controls.every(control => control.valid);
}

/*
 * Checks if all values present in the `FormArray` are invalid.
 * * @returns boolean
 */
allInvalid(): boolean {
  return this.controls.every(control => !control.valid);
}

/*
 * Checks if all values present in the `FormArray` are marked for revalidation.
 * * @returns boolean
 */
allPending(): boolean {
  return this.controls.every(control => control.dirty);
}

/*
 * Checks if all values present in the `FormArray` are marked for validation.
 * * @returns boolean
 */
allPendingOrInvalid(): boolean {
  return this.controls.every(control => control.dirty || !control.valid);
}

/*
 * Checks if any value present in the `FormArray` is null, undefined, or invalid.
 * * @returns boolean
 */
hasValue(): boolean {
  return this.controls.find(control => control.value !== null && control.value !== undefined && control.value !== '');
}

/*
 * Checks if any control in the `FormArray` is invalid.
 * * @returns boolean
 */
hasInvalid(): boolean {
  return this.controls.find(control => !control.valid);
}

/*
 * Checks if any control in the `FormArray` is dirty.
 * * @returns boolean
 */
hasDirty(): boolean {
  return this.controls.find(control => control.dirty);
}

/*
 * Checks if any control in the `FormArray` is marked for revalidation.
 * * @returns boolean
 */
hasPending(): boolean {
  return this.controls.find(control => control.dirty);
}

/*
 * Checks if any control in the `FormArray` is pending or invalid.
 * * @returns boolean
 */
hasPendingOrInvalid(): boolean {
  return this.controls.find(control => control.dirty || !control.valid);
}

/*
 * Checks if any of the controls in the `FormArray` is marked for value change.
 * * @returns boolean
 */
hasValueChange(): boolean {
  return this.controls.find(control => control.value !== '');
}

/*
 * Checks if any of the controls in the `FormArray` is marked for status change.
 * * @returns boolean
 */
hasStatusChange(): boolean {
  return this.controls.find(control => control.status !== null);
}

/*
 * Checks if any of the controls in the `FormArray` is marked for both value and status changes.
 * * @returns boolean
 */
hasValueAndStatusChange(): boolean {
  return this.controls.find(control => control.dirty || control.status !== null);
}

/*
 * Checks if any of the controls in the `FormArray` is marked for both value and status changes.
 * * @returns boolean
 */
hasValueAndStatusChange(): boolean {
  return this.controls.find(control => control.dirty || control.status !== null);
}

/*
 * Checks if any of the controls in the `FormArray` is marked for both value and status changes.
 * * @returns boolean
 */
hasValueAndStatusChange(): boolean {
  return this.controls.find(control => control.dirty || control.status !== null);
}

/*
 * Checks if any of the controls in the `FormArray` is marked for both value and status changes.
 * * @returns boolean
 */
hasValueAndStatusChange(): boolean {
  return this.controls.find(control => control.dirty || control.status !== null);
}
**AbstractControl#updateValueAndValidity**

*updateValueAndValidity()* method.

```typescript
abstract patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  value.forEach((newValue, index) => {
    if (this.at(index)) {
      this.at(index).patchValue(newValue, options.that updates the value in a form array.
    }
  });
}
```

```typescript
default class FormArray{
  reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._forEachChild((control: AbstractControl, index: number) => {
      control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
  }
}
```

**FormArray#getRawValue**

```typescript
getRawValue(): any[] {
  return this.controls.map((control: AbstractControl) => {
    return control instanceof FormControl ? control.value : (<any>control).getRawValue();
  });
}
```

**FormArray#clear**

```typescript
clear(): void {
  if (this.controls.length < 1) return;
  this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));
  this.controls.splice(0);
  this.updateValueAndValidity();
}
```

**FormArray#_syncPendingControls**

```typescript
_syncPendingControls(): boolean {
  let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {
    return child._syncPendingControls() ? true : updated;
  }, false);
  if (subtreeUpdated)
    this.updateValueAndValidity({onlySelf: true});
  return subtreeUpdated;
}
```

**FormArray#_throwIfControlMissing**

```typescript
_throwIfControlMissing(index: number): void {
  if (!this.controls.length) {
    throw new Error(`
      There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.at(index)) {
    throw new Error(`Cannot find form control at index ${index}`);
  }
}
```

**FormArray#_anyControls**

```typescript
_anyControls(condition: Function): boolean {
  return this.controls.some((control: AbstractControl) => condition(control));
}
```

**FormArray#_setUpControls**

```typescript
_upSetControls(): void {
  this._forEachChild((control: AbstractControl) => this._registerControl(control));
}
```

**FormArray#_anyControls**

```typescript
_anyControls(condition: Function): boolean {
  return this.controls.some((control: AbstractControl) => condition(control));
}
```

**FormArray#_setUpControls**

```typescript
_upSetControls(): void {
  this._forEachChild((control: AbstractControl) => this._registerControl(control));
}
```

**FormArray#_throwIfControlMissing**

```typescript
_throwIfControlMissing(index: number): void {
  if (!this.controls.length) {
    throw new Error(`
      There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.at(index)) {
    throw new Error(`Cannot find form control at index ${index}`);
  }
}
```

**FormArray#_anyControls**

```typescript
_anyControls(condition: Function): boolean {
  return this.controls.some((control: AbstractControl) => condition(control));
}
```

**FormArray#_setUpControls**

```typescript
_upSetControls(): void {
  this._forEachChild((control: AbstractControl) => this._registerControl(control));
}
```

**FormArray#_throwIfControlMissing**

```typescript
_throwIfControlMissing(index: number): void {
  if (!this.controls.length) {
    throw new Error(`
      There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.at(index)) {
    throw new Error(`Cannot find form control at index ${index}`);
  }
}
```

**FormArray#_anyControls**

```typescript
_anyControls(condition: Function): boolean {
  return this.controls.some((control: AbstractControl) => condition(control));
}
```

**FormArray#_setUpControls**

```typescript
_upSetControls(): void {
  this._forEachChild((control: AbstractControl) => this._registerControl(control));
}
```

**FormArray#_throwIfControlMissing**

```typescript
_throwIfControlMissing(index: number): void {
  if (!this.controls.length) {
    throw new Error(`
      There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.at(index)) {
    throw new Error(`Cannot find form control at index ${index}`);
  }
}
```

**FormArray#_anyControls**

```typescript
_anyControls(condition: Function): boolean {
  return this.controls.some((control: AbstractControl) => condition(control));
}
```

**FormArray#_setUpControls**

```typescript
_upSetControls(): void {
  this._forEachChild((control: AbstractControl) => this._registerControl(control));
}
```

**FormArray#_throwIfControlMissing**

```typescript
_throwIfControlMissing(index: number): void {
  if (!this.controls.length) {
    throw new Error(`
      There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.at(index)) {
    throw new Error(`Cannot find form control at index ${index}`);
  }
}
```

**FormArray#_anyControls**

```typescript
_anyControls(condition: Function): boolean {
  return this.controls.some((control: AbstractControl) => condition(control));
}
```

**FormArray#_setUpControls**

```typescript
_upSetControls(): void {
  this._forEachChild((control: AbstractControl) => this._registerControl(control));
}
```

**FormArray#_throwIfControlMissing**

```typescript
_throwIfControlMissing(index: number): void {
  if (!this.controls.length) {
    throw new Error(`
      There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.at(index)) {
    throw new Error(`Cannot find form control at index ${index}`);
  }
}
```

**FormArray#_anyControls**

```typescript
_anyControls(condition: Function): boolean {
  return this.controls.some((control: AbstractControl) => condition(control));
}
```

**FormArray#_setUpControls**

```typescript
_upSetControls(): void {
  this._forEachChild((control: AbstractControl) => this._registerControl(control));
}
```

**FormArray#_throwIfControlMissing**

```typescript
_throwIfControlMissing(index: number): void {
  if (!this.controls.length) {
    throw new Error(`
      There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.at(index)) {
    throw new Error(`Cannot find form control at index ${index}`);
  }
}
```

**FormArray#_anyControls**

```typescript
_anyControls(condition: Function): boolean {
  return this.controls.some((control: AbstractControl) => condition(control));
}
```

**FormArray#_setUpControls**

```typescript
_upSetControls(): void {
  this._forEachChild((control: AbstractControl) => this._registerControl(control));
}
```

**FormArray#_throwIfControlMissing**

```typescript
_throwIfControlMissing(index: number): void {
  if (!this.controls.length) {
    throw new Error(`
      There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.at(index)) {
    throw new Error(`Cannot find form control at index ${index}`);
  }
}
```

**FormArray#_anyControls**

```typescript
_anyControls(condition: Function): boolean {
  return this.controls.some((control: AbstractControl) => condition(control));
}
```

**FormArray#_setUpControls**

```typescript
_upSetControls(): void {
  this._forEachChild((control: AbstractControl) => this._registerControl(control));
}
```
throw new Error('Must supply a value for form control at index: ' + index);

/** @internal */
_allControlsDisabled(): boolean {
  return this.controls.length > 0 || this.disabled;
}

private _registerOnCollectionChange(onCollectionChange: ChangeDetector)

/** @internal */
_allControlsEnabled(): boolean {
  return this.controls.every(control => control.enabled);
}

_allControlsDisabled(): boolean {
  return this.controls.length > 0 || this.disabled;
}

private _registerControl(control: AbstractControl) {
  control.setParent(this);
  control._registerOnCollectionChange(this._onCollectionChange);
}

/**
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {AfterViewInit,
    Directive, EventEmitter, Inject, Input, Optional, Self, forwardRef} from '@angular/core';

import {AbstractControl, FormControl, FormGroup, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS,
    NG_VALIDATORS} from '../validators';

import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {NgModel} from './ng_model';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, removeDir,
    setUpControl, setUpFormContainer, syncPendingControls} from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm)
};

/**
 * @description
 * Creates a top-level `FormGroup` instance and binds it to a
 * form to track aggregate form value and validation status.
 *
 * As soon as you import the `FormsModule`, this
 * directive becomes active by default on
 * all `<form>` tags. You don't need to add a special selector.
 * You optionally export the directive into a local template variable using `ngForm` as the key
 * (ex: `#myForm="ngForm"`). This is optional, but useful. Many properties from the underlying
 * `FormGroup` instance are duplicated on the directive itself, so a reference to it gives you access to the aggregate value
 * and validity status of the form, as well as user interaction properties like 'dirty' and 'touched'.
 * To register child controls with the form, use 'NgModel' with a 'name' attribute. You may use 'NgModelGroup' to create
 * sub-groups within the form.
 * If necessary, listen to the directive's 'ngSubmit' event to be notified when the
 * user has triggered a form submission. The `ngSubmit` event emits the original form
 * submission event.

* In template driven forms, all `<form>` tags are automatically tagged as 'NgForm'.
 * To import the
 * 'FormsModule' but skip its usage in some forms, for example, to use native HTML5 validation, add the
 * `彝NoForm` and the `<form>` tags won't create an 'NgForm' directive. In reactive forms, using 'NgNoForm'
 * is
 * unnecessary because the '<form>' tags are inert. In that case, you would
 * refrain from using the
 * 'formGroup' directive.

* The `FormGroup` instance created for this form.

* The `FormGroup` instance created for this form.

* The `FormGroup` instance created for this form.

* The `FormGroup` instance created for this form.

* The `FormGroup` instance created for this form.

* The `FormGroup` instance created for this form.

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* The `FormGroup` instance created for this form.

* The `FormGroup` instance created for this form.

* The `FormGroup` instance created for this form.
@Input('ngFormOptions') options!: {updateOn?: FormHooks};

  constructor(@Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
             @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[],
             super(), composeValidators(validators), composeAsyncValidators(asyncValidators));

  /**
   * @description
   * Lifecycle method called after the view is initialized. For internal use only.
   */
  ngAfterViewInit() { this._setUpdateStrategy(); }

  /**
   * @description
   * The directive instance.
   */
  get formDirective(): Form { return this; }

  /**
   * @description
   * The internal `FormGroup` instance.
   */
  get control(): FormGroup { return this.form; }

  /**
   * @description
   * Returns an array representing the path to this group. Because this directive
   * lives at the top level of a form, it is always an empty array.
   */
  get path(): string[] { return []; }

  /**
   * @description
   * Returns a map of the controls in this group.
   */
  get controls(): {
      key: string
      : AbstractControl
    } { return this.form.controls; }

  /**
   * @description
   * Method that sets up the control
directive in this group, re-calculates its value;
   * and validity, and adds the instance to the internal list of directives.
   */
  addControl(dir: NgModel): void {
    resolvedPromise.then(() => {
      const container = this._findContainer(dir.path);
      (dir as {control: FormControl}).control =
          <FormControl>container.registerControl(dir.name, dir.control);
      setUpControl(dir.control, dir);
      dir.control.updateValueAndValidity({emitEvent: false});
      this._directives.push(dir);
    });
  }

  /**
   * @description
   * Retrieves the `FormControl` instance from the
   * provided `NgModel` directive instance.
   */
  getControl(dir: NgModel): FormControl { return <FormControl>this.form.get(dir.path); }

  /**
   * @description
   * Removes the `NgModel` instance from the internal list of directives.
   */
  removeControl(dir: NgModel): void {
    resolvedPromise.then(() => {
      const container = this._findContainer(dir.path);
      if (container) {
        container.removeControl(dir.name);
      }
    });
  }

  /**
   * @description
   * Adds a new
   * `NgModelGroup` directive instance to the form.
   */
  addFormGroup(dir: NgModelGroup): void {
    resolvedPromise.then(() => {
      const container = this._findContainer(dir.path);
      const group = new FormGroup({});
      setUpFormContainer(group, dir);
      container.registerControl(dir.name, group);
      group.updateValueAndValidity({emitEvent: false});
    });
  }

  /**
   * @description
   * Removes the `NgModelGroup` directive instance from the form.
   */
  removeFormGroup(dir: NgModelGroup): void {
    resolvedPromise.then(() => {
      const container = this._findContainer(dir.path);
      if (container) {
        container.removeControl(dir.name);
      }
      removeDir<NgModel>(this._directives, dir);
    });
  }

  /**
   * @description
   * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.
   */
  getFormGroup(dir: NgModelGroup): FormGroup { return <FormGroup>this.form.get(dir.path); }

  /**
   * @description
   * Method called when the "submit" event is triggered on the form.
   * Triggers
   * the `ngSubmit` emitter to emit the "submit" event as its payload.
   */
  onSubmit($event: Event): boolean {
    (this as {submitted: boolean}).submitted = true;
    syncPendingControls(this.form, this._directives);
    this.ngSubmit.emit($event);
    return false;
  }

  /**
   * @description
   * Method called when the "reset" event is triggered on the form.
   */
  onReset() { this.resetForm(); }

  /**
   * @description
   * Resets the form to an initial value and resets its submitted
   * status.
   */
  resetForm(value: any = undefined): void {
    this.form.reset(value);
    (this as {submitted: boolean}).submitted = false;
    private _setUpdateStrategy();
  }

  private _setUpdateStrategy() {
    if (this.options && this.options.updateOn != null) {
      this.form._updateOn = this.options.updateOn;
    }
  }

  /** @internal */
  _findContainer(path: string[]):

<FormGroup>this.form.get(path) : this.form; |}n|w",/**n * @license|n * Copyright Google Inc. All Rights Reserved.|n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
*/

import {OnInit} from '@angular/core';

import {ControlGroup} from '@angular/forms';

import {FormGroup} from '@angular/forms';

import {ControlGroup, ControlGroupDirective} from '@angular/forms';

import {FormErrorExamples as Examples} from './error_examples';

export class TemplateDrivenErrors {
  static modelParentException(): void {
    throw new Error(`
      ngModel cannot be used to register form controls with a parent formGroup directive.  Try using formGroup's partner directive "formControlName" instead. Example:

      ${Examples.formControlName}

      Or, if you'd like to avoid registering this form control, indicate that it's standalone in formGroupOptions:

      Example:

      ${Examples.ngModelWithFormGroup}`);
  }

  static formGroupNameException(): void {
    throw new Error(`
      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.

      Option 1: Use formControlName instead of ngModel (reactive strategy):

      ${Examples.formGroupName}

      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):

      ${Examples.ngModelGroup}`);
  }

  static missingNameException() {
    throw new Error(`
      If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in formGroupOptions.

      Example 1: <input [(ngModel)]="person.firstName" name="first">

  Example 2: <input [(ngModel)]="{person.firstName}" [ngModelOptions]="{standalone: true}">

  If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in formGroupOptions.

      Example 1: <input [(ngModel)]="{person.firstName}"
      name="first">

      Example 2: <input [(ngModel)]="{person.firstName}" [ngModelOptions]="{standalone: true}">

      function as 'standalone' in formGroupOptions.

      Option 1: Use formGroupName instead of ngModel (reactive strategy):

      Example:

      ${Examples.ngModelWithFormGroup}`);
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component

class sets the value in the view. If you have a two-way binding with `[object]` syntax, the value in the UI always syncs back to the domain model in your class. To inspect the properties of the associated `FormControl` (like validity state), you export the directive into a local template variable using `ngModel` as the key (ex: `#myVar='\$\{\text{ngModel}()\}`). You then access the control using the directive’s `control` property, but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access. See a full list of properties directly available in `AbstractControlDirective`. When using the `ngModel` within `<form>` tags, you’ll also need to supply a `name` attribute so that the control can be registered with the parent form under that name. In the context of a parent form, it’s often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a local template variable using `ngForm` such as (`#f='\$\{\text{ngForm}()\}`). Use the variable where needed on form submission. If you do not need to populate initial values into your form, using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit. Using `ngModel` within a form allows you to use a standalone ngModel control within a form. This controls the display of the form, but doesn't contain form data. If you need to populate initial values into your form, using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit.

Using `ngModel` on a standalone control

The following examples show a simple standalone control using `ngModel`:

```html
<input name="login" ngModel [ngModelOptions]="{standalone: true}">
```

The following example shows controls using `ngModel` within a form:

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
</form>
```

### Setting the `ngModel` name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <my-person-control name="Nancy" ngModel [ngModelOptions]="{}">
  </my-person-control>
</form>
```

### Using `ngModel` within a group

The following example shows you how to use a standalone ngModel control within a form. This controls the display of the form, but doesn't contain form data.

```html
<form>
  <input name="login" ngModel [ngModelOptions]="{standalone: true}">
  <input type="checkbox" [ngModelOptions]="{}"> Show more options?
</form>
```

### Using ngModel on a standalone control

The following examples show a simple standalone control using `ngModel`:

```html
<input name="login" ngModel>
```

When using the `ngModel` within `<form>` tags, you’ll also need to supply a `name` attribute so that the control can be registered with the parent form under that name. In the context of a parent form, it’s often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a local template variable using `ngForm` such as (`#f='\$\{\text{ngForm}()\}`). Use the variable where needed on form submission. If you do not need to populate initial values into your form, using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit.

Using `ngModel` within a form allows you to use a standalone ngModel control within a form. This controls the display of the form, but doesn't contain form data. If you need to populate initial values into your form, using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit.
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```typescript
super();
this._parent = parent;
this._rawValidators = validators || [];
this._rawAsyncValidators = asyncValidators || [];
this.value = selectValueAccessor(this.valueAccessors);
this.valueAccessor = selectValueAccessor(this.valueAccessors);
this._checkParentType();
this._checkParent((this._parent instanceof AbstractFormGroupDirective) ? this._parent.formDirective : null);
this._checkParent((this._parent instanceof NgForm) ? this._parent.formDirective : null);
private _checkParentType(): void {
  if (this._isStandalone()) {
    this._setUpStandalone();
  } else if (this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm) {
    this._checkForErrors();
    if (!this._registered) this._setUpControl();
    if ('isDisabled' in changes) {
      if (isPropertyUpdated(changes, this._isStandalone())) this._setUpStandalone();
    }
    this._checkParent((this._parent instanceof AbstractFormGroupDirective) ? this._parent.formDirective : null);
    this._checkParent((this._parent instanceof NgForm) ? this._parent.formDirective : null);
  }
}
```
changes['isDisabled'].currentValue;\nconst isDisabled =\ndisabledValue !== "" ||
(disabledValue &\& disabledValue !== 'false');\nresolvedPromise.then(() => {\n  if (isDisabled &\& !this.control.disabled) {\nthis.control.disable();\n  } else if (isDisabled &\&
this.control.disabled) {\n  this.control.enable();\n  }\n});\n]\n\n\n/**
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 * style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Directive} from '@angular/core';

/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.\n *
 * `novalidate` is used to disable browser's native form validation.\n *
 * If you want to use native validation with Angular forms, just add `ngNativeValida-
 * te` attribute:\n *\n * ```
 * <form ngNativeValidate></form>
 * ```
 *
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated,
selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and
 * formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING =
    new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see 
 * [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value.
 *
 * ```
 * {@example forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'}
 * ```
 *
 * ### Use with ngModel
 *
 * Support for using the `ngModel` input property and `ngModelChange` event with reactive\n * form directives has been deprecated in Angular v6 and will be removed in a future version of Angular.\n *
 * Now deprecated:
 *
 * ```html
 * <input [formControl]='control' [(ngModel)]='value'>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * By default, when you use this pattern, you will see a deprecation warning once in dev\n * mode. You can choose to silence this warning by providing a config for `ReactiveFormsModule` at import
 * time:
 * ```
 * { warnOnNgModelWithFormControl: false
 * ```
 * ```
 * ```
import { FormControl, FormGroup, NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators } from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../../model';
import {AbstractControl, ControlContainer, Form, ReactiveErrors} from '../control_container';
import {cleanUpControl, composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from '../shared';

import {FormControlName} from './form_control_name';
import {FormArrayName, FormGroupName} from './form_group_name';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupDirective)
};

/**
 * @description
 * @example
 *
 * Binds an existing `FormGroup` to a DOM element.!
 * This directive accepts an existing `FormGroup`
 * instance.
 * It will then use this
 * `FormGroup` instance to match any child `FormControl`, `FormGroup`, and `FormArray`
 * instances to child `FormControl`, `FormGroup`, and `FormArray`
 * directives.
 *
 * ### Register Form Group
 *
 * The following example registers a `FormGroup` with first name and last name controls, and
 * listens for the `*ngSubmit` event when the button is clicked.!
 *
 * @ngModule
 * @publicApi
 */
@Directive({
  selector: '[formGroup]',
  providers: [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  exportAs: 'ngForm'
})
export class FormGroupDirective extends ControlContainer implements Form, OnChanges, Output {
  /**
   * @description
   * Reports whether the form submission has been triggered.!
   * This directive accepts an existing `FormGroup` instance.
   * It will then use this
   * `FormGroup` instance to match any child `FormControl`, `FormGroup`, and `FormArray`
   * instances to child `FormControl`, `FormGroup`, and `FormArray`
   * directives.
   *
   * ### Register Form Group
   *
   * The following example registers a `FormGroup` with first name and last name controls, and
   * listens for the `*ngSubmit` event when the button is clicked.!
   * @ngModule
   * @publicApi
   */
@Directive({
  selector: '[formGroup]',
  providers: [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  exportAs: 'ngForm'
})
export class FormGroupDirective extends ControlContainer implements Form, OnChanges, Output {
  /**
   * @description
   * Reports whether the form submission has been triggered.!
   * This directive accepts an existing `FormGroup` instance.
   * It will then use this
   * `FormGroup` instance to match any child `FormControl`, `FormGroup`, and `FormArray`
   * instances to child `FormControl`, `FormGroup`, and `FormArray`
   * directives.
   *
   * ### Register Form Group
   *
   * The following example registers a `FormGroup` with first name and last name controls, and
   * listens for the `*ngSubmit` event when the button is clicked.!
removeFormGroup(dir: FormGroupName): void {}

getFormGroup(dir: FormGroupName): FormGroup {
  return <FormGroup>this.form.get(dir.path);
}

addFormArray(dir: FormArrayName): void {
  this.form.get(dir.path).addControl(dir.control);
  this.form.get(dir.path).updateValueAndValidity();
}

removeFormArray(dir: FormArrayName): void {
  this.form.get(dir.path).removeControl(dir.control);
  this.form.get(dir.path).updateValueAndValidity();
}

getFormArray(dir: FormArrayName): FormArray {
  return <FormArray>this.form.get(dir.path);
}

updateModel(dir: FormControlName, value: any): void {
  this.form.get(dir.path).setValue(value);
}

onSubmit($event: Event): boolean {
  this.form.updateValueAndValidity({emitEvent: false});
  this.ngSubmit.emit($event);
  return false;
}

onReset(): void {
  this.resetForm();
}

resetForm(value: any = undefined): void {
  this.form.reset(value);
  this.submitted = false;
}

_updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl: any = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as {control: FormControl}).control = newCtrl;
    }
  });
  this.form._updateTreeValidity({emitEvent: false});
}

_private_updateRegistrations() {
  this.form._registerOnCollectionChange(() => this._updateDomValue());
  if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
  this._oldForm = this.form;
}

_private_updateValidators() {
  const sync = composeAsyncValidators(this._validators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator!, sync!]);
  const async = composeAsyncValidators(this._asyncValidators);
  this.form.Validator = Validators.compose([this.form.validator!, async!]);
}

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/**
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 *
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 */

import {Directive, Host, Inject, Input, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormArray} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ReactiveErrors} from '../reactive_errors';
import {composeAsyncValidators, composeValidators, controlPath} from '../shared';

import {FormGroupDirective} from './form_group_directive';

export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element.
 *
 * This directive can only be used with a parent `FormGroup`
 * registered with the same name.
 *
 * Use nested form groups to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.
 */

/**
 * @description
 * Retrieves the `FormGroup` for a provided `FormGroupName` directive instance.
 *
 * @param dir The `FormGroupName` directive instance.
 */

/**
 * @description
 * Retrieves the `FormArray` for a provided `FormArrayName` directive instance.
 *
 * @param dir The `FormArrayName` directive instance.
 */

/**
 * @description
 * Retrieves the `FormControl` for a provided `FormControlName` directive.
 *
 * @param dir The `FormControlName` directive instance.
 */

/**
 * @description
 * Method called with the "submit" event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the "submit" event as its payload.
 *
 * @param dir The `FormArrayName` directive instance.
 */

/**
 * @description
 * Method called when the `reset` event is triggered on the form.
 *
 * @param value The new value for the form.
 */

/**
 * @internal
 */

private _checkFormPresent() {
  if (!this.form) {
    ReactiveErrors.missingFormException();
  }
}

// @ see [Reactive Forms Guide](guide/reactive-forms)

The following example uses the [link AbstractControl#get get] method to access the
`FormGroup`:

```ts
this.form.get('name');
```

### Access individual controls in the group

*The following example uses the [@link AbstractControl#get get] method to access individual controls within the group using dot syntax.*

*The following example registers a nested *name* `FormGroup` within an existing `FormGroup` and provides methods to retrieve the nested `FormGroup` and individual controls.*

```ts
this.form.get('name.first');
```

### Register a nested `FormGroup`.

*The following example registers a nested *name* `FormGroup` within an existing `FormGroup`.*

```ts

```

### Register a nested `FormArray`.

*The following example registers a nested *name* `FormArray` within an existing `FormArray`.*

```ts

```

### Register a nested `FormGroup`.

*The following example registers a nested *name* `FormGroup` within an existing `FormGroup`.*

```ts

```

### Register a nested `FormArray`.

*The following example registers a nested *name* `FormArray` within an existing `FormArray`.*

```ts

```
Synchronous validator function composed of all the synchronous validators registered with this directive:

```javascript
get validator(): ValidatorFn|null {
  return composeValidators(this._validators);
}
```

Async validator function composed of all the async validators registered with this directive:

```javascript
get asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._asyncValidators);
}
```

```javascript
private _checkParentType(): void {
  if (_hasInvalidParent(this._parent)) {
    ReactiveErrors.arrayParentException();
  }
}
```

```javascript
function _hasInvalidParent(parent: ControlContainer): boolean {
  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
  !(parent instanceof FormArrayName);
}
```

```javascript
/**
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 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SimpleChanges, SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form controls within a form group
 * and set their value:
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * To see `formControlName` examples with different form control types, see:

 * Radio buttons:

 * ```html
 * <input formControlName="first" [(ngModel)]="value">
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * By default, when you use this pattern, you will see a deprecation warning once in dev
 * mode. You can choose to silence this warning by providing a config for
 * `ReactiveFormsModule` at import time:

 * ```ts
 * imports:
 * ```

```
Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `"always"`. This may help to track down where in the code the pattern is being used as the code is being updated.

```
Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `"always"`. This may help to track down where in the code the pattern is being used as the code is being updated.

```
private _checkParentType(): void {
  if (!(this._parent instanceof FormGroupName) &&
    !this._parent instanceof AbstractFormGroupDirective) {
    ReactiveErrors.ngModelGroupException();
  } else if (this._parent instanceof FormGroupName) {
    ReactiveErrors.controlParentException(this._parent);
  } else if (this._parent instanceof FormGroupDirective) {
    ReactiveErrors.ngModelGroupException();
  } else if (this._parent instanceof FormArrayName) {
    ReactiveErrors.controlParentException();
  }
}

private _setUpControl() {
  this._checkParentType();
  (this as {control: FormControl}).control =
    this.formDirective.addControl(this);
  if (this.control.disabled && this.valueAccessor != null) {
    this.valueAccessor!(null); // Set the control to be disabled
  }
  this._added = true;
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, Input, OnChanges, SimpleChanges, AbstractControl} from '@angular/core';
import {Observable} from 'rxjs';
import {NG_VALIDATORS, Validators} from '../validators';

/**
 * Defines the map of errors returned from failed validation checks.
 *
 * @publicApi
 */
export type ValidationErrors = {
  [key: string]: any
};

/**
 * An interface implemented by classes that perform synchronous validation.
 *
 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create an
 * validator directive with a custom error key.
 *
 * ```typescript
 * class CustomValidatorDirective implements Validator {
 *   validate(control: AbstractControl): ValidationErrors|null {
 *     return {'custom': true};
 *   }
 * }
 * ```
 *
 * @publicApi
 */
export interface Validator {
  /**
   * Method that performs synchronous validation against the provided control.
   *
   * @param control The control to validate against.
   *
   * @returns A map of validation errors if validation fails,null
   * otherwise.
   */
  validate(control: AbstractControl): ValidationErrors|null;

  /**
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange?(fn: () => void): void;
}

/**
 * An interface implemented by classes that perform asynchronous validation.
 *
 * @usageNotes
 *
 * ### Provide a custom async validator directive
 *
 * The following example implements the `AsyncValidator` interface to create an
 * async validator directive.
 *
 * ```typescript
 * class CustomAsyncValidatorDirective implements AsyncValidator {
 *   validate(control: AbstractControl): Observable<ValidationErrors|null> {
 *     return observableOf({'custom': true});
 *   }
 * }
 * ```
 *
 * @publicApi
 */
export interface AsyncValidator extends Validator {
  /**
   * Method that performs async validation against the provided
   *
   * @param control The control to validate against.
   *
   * @returns A promise or observable that returns a map of validation errors
   * if validation fails, otherwise null.
   */
  validate(control: AbstractControl): Promise<ValidationErrors|null>|
    Observable<ValidationErrors|null>;
}

/**
 * A directive that adds the `required` validator to any controls marked with the
 * `required` attribute. The directive is provided with the `NG_VALIDATORS`
 * multi-provider list.
 *
 * @see 
 * @publicApi
 */
@Directive({
  selector:
    ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=checkbox])[required][ngModel]',
  providers: [REQUIRED_VALIDATOR],
  host: {`attr.required`.: `required ? "" :":not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=checkbox])[required][ngModel],providers: [REQUIRED_VALIDATOR],host: {`attr.required`.: `required ? "$\" : `}]
})

private _checkParentType(): void {
  if (!(this._parent instanceof FormGroupName) &&
    !this._parent instanceof AbstractFormGroupDirective) {
    ReactiveErrors.ngModelGroupException();
  } else if (this._parent instanceof FormGroupName) {
    ReactiveErrors.controlParentException(this._parent);
  } else if (this._parent instanceof FormGroupDirective) {
    ReactiveErrors.ngModelGroupException();
  } else if (this._parent instanceof FormArrayName) {
    ReactiveErrors.controlParentException();
  }
}
class RequiredValidator implements Validator {
  // TODO(issue/24571): remove `!`.
 private _required!: boolean;
 // TODO(issue/24571): remove `!` private _onChange!: () => void;

 @description
 * Tracks changes to the required attribute bound to this directive.
 * @Input() get required(): boolean|string { return this._required;
 * @Input() set required(value: boolean|string) { this._required =
 value !== false && value !== null ;
 if (this._onChange) this._onChange();

 **@description** Method that validates whether the control is empty.
 * Returns the validation result if enabled, otherwise null.
 @validate(control: AbstractControl): ValidationErrors|null {
 return this.required ?
 Validators.required(control) : null;

 **@description** Registers a callback function to call when
 the validator inputs change.

 **@description** Registers a callback function to call when
 the validator inputs change.

 @registerOnValidatorChange(fn: () => void): void {
 (this._onChange = fn);
 }

 /**
 @description
 * Tracks changes to the required attribute bound to this directive.
 * @Input() get required(): boolean|string { return this._required;
 * @Input() set required(value: boolean|string) { this._required =
 value !== false && value !== null ;
 if (this._onChange) this._onChange();

 **@description** Method that validates whether the control is empty.
 * Returns the validation result if enabled, otherwise null.
 @validate(control: AbstractControl): ValidationErrors|null {
 return this.required ?
 Validators.required(control) : null;

 **@description** Registers a callback function to call when
 the validator inputs change.

 **@description** Registers a callback function to call when
 the validator inputs change.

 @registerOnValidatorChange(fn: () => void): void {
 (this._onChange = fn);
 }

 /**
 * A Directive that adds the `required` validator to checkbox
 controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.

 **@description** Method that validates whether an email
 address is valid.
 * Returns the validation result if enabled, otherwise null.
 @validate(control: AbstractControl): ValidationErrors|null {
 return this.required ?
 Validators.required(control) : null;

 **@description** Registers a callback function to call when
 the validator inputs change.

 **@description** Registers a callback function to call when
 the validator inputs change.

 @registerOnValidatorChange(fn: () => void): void {
 (this._onChange = fn);
 }

 /**
 * A function that receives a control and synchronously returns a map of
 * validation errors if present, otherwise null.
 *
 * @publicApi
 */
export interface ValidatorFn { (control: AbstractControl): ValidationErrors|null; }

 /**
 * A function that receives a control and returns a Promise or
 * observable that emits validation errors if present, otherwise null.
 *
 * @publicApi
 */
export interface AsyncValidatorFn { (control: AbstractControl): ValidationErrors|null; }

 /**
 * @description
 * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true
};
MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(i =>
  MinLengthValidator),
  multi: true
};

readonly MIN_LENGTH_VALIDATOR

/**
 * A directive that adds minimum length validation to controls
 * marked with the `minlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider
 * list.
 */

@Directive({
  selector: '[minlength][formControlName],[minlength][formControl],[minlength][ngModel]',
  providers: [MIN_LENGTH_VALIDATOR],
  host: {'[attr.minlength]': 'minlength ? minlength : null'}
})
export class
MinLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private
  _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('minlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Method that validates whether the value meets a minimum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.minlength == null ? null : this._validator(control);
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private
  _createValidator(): void {
    this._validator = Validators.minLength(10);
  }
}

/**
 * A directive that adds maximum length validation to controls marked with the `maxlength` attribute.
 * The directive is provided with the `NG_VALIDATORS` multi-provider list.
 */

@Directive({
  selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
  providers: [MAX_LENGTH_VALIDATOR],
  host: {'[attr.maxlength]': 'maxlength ? maxlength : null'}
})
export class
MaxLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private
  _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Method that validates whether the value exceeds a maximum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.maxlength != null ? this._validator(control) : null;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private
  _createValidator(): void {
    this._validator = Validators.maxLength(25);
  }
}

/**
 * A directive that adds pattern validation to controls marked with the `pattern` attribute.
 * The directive is provided with the `NG_VALIDATORS` multi-provider list.
 */

@Directive({
  selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class
PatternValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private
  _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Method that validates whether the value matches a pattern.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.pattern == null ? null : this._validator(control);
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private
  _createValidator(): void {
    this._validator = new RegExp(regex);
  }
}
A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value. The directive is provided with the `NG_VALIDATORS` multi-provider list.

```javascript
/**
 * @description
 * A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value.
 * The following example shows how to add a pattern validator to an input attached to an `ngModel` binding.

```html
	<input name="firstName" ngModel pattern="^[a-zA-Z ]*" />
```

@ngModule
ReactiveFormsModule
@ngModule FormsModule
@publicApi
@Directive({
  selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator,
OnChanges {
  private _validator !: ValidatorFn;
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the pattern bound to this directive.
   */
  @Input() pattern !: string | RegExp;

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use.
   * Only called when `param` changes a object of key/value pairs for the set of changed inputs.
   * Tracks changes to the pattern bound to this directive.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value matches the pattern requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control);
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern);
  }

```
Open Source Used In MSX SD-WAN Service Pack 4.0.0

```typescript
'./directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  NgSelectMultipleOption,
  DefaultValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  NgControlStatus,
  NgControlStatusGroup,
  RequiredValidator,
  MinLengthValidator,
  MaxLengthValidator,
  PatternValidator,
  CheckboxRequiredValidator,
  EmailValidator,
];

export const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel,
  NgModelGroup, NgForm];

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 */

import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`, `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param
   * controlsConfig A collection of child controls. The key for each child is the name under which it is registered.
   *
   * @param
   * options Configuration options object for the `FormGroup`. The object can have two shapes:
   *
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous validator function, or an array of validator functions
   * * `asyncValidators`: A single async validator or array of async validator functions
   *
   * 2) Legacy configuration object, which consists of:
   * * `validator`: A synchronous validator function, or an array of validator functions
   * * `asyncValidator`: A single async validator or array of async validator functions
   *
   * The `FormBuilder` provides syntactic sugar that shorts creating instances of a `FormControl`, a `FormGroup`, or a `FormArray`. It reduces the amount of boilerplate needed to build complex forms.
   *
   * @see [Reactive Forms Guide](/guide/reactive-forms)
   */
  group(controlsConfig: {key: string}: any, options: AbstractControlOptions | {key: string}: any | null = null): FormGroup {
    const controls = this._reduceControls(controlsConfig);

    let validators: ValidatorFn|ValidatorFn[]|null = null;
    let asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;
    let updateOn: FormHooks|undefined = undefined;

    if (options != null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form group options
        validators = options['validator'] != null ? options['validator'] : null;
        asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
      }
    }

    return new FormGroup(controls, {validators, asyncValidators, updateOn: updateOn});
  }

  /**
   * @description
   * Construct a new `FormArray` instance.
   *
   * @param
   * controlsConfig A collection of child controls. The key for each child is the name under which it is registered.
   *
   * @param
   * options Configuration options object for the `FormArray`. The object can have two shapes:
   *
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous validator function, or an array of validator functions
   * * `asyncValidators`: A single async validator or array of async validator functions
   *
   * 2) Legacy configuration object, which consists of:
   * * `validator`: A synchronous validator function, or an array of validator functions
   * * `asyncValidator`: A single async validator or array of async validator functions
   *
   * The `FormBuilder` provides syntactic sugar that shorts creating instances of a `FormControl`, a `FormGroup`, or a `FormArray`. It reduces the amount of boilerplate needed to build complex forms.
   *
   * @see [Reactive Forms Guide](/guide/reactive-forms)
   */
  array(controlsConfig: {key: string}: any, options: AbstractControlOptions | {key: string}: any | null = null): FormArray {
    const controls = this._reduceControls(controlsConfig);

    let validators: ValidatorFn|ValidatorFn[]|null = null;
    let asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;
    let updateOn: FormHooks|undefined = undefined;

    if (options != null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form group options
        validators = options['validator'] != null ? options['validator'] : null;
        asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
      }
    }

    return new FormArray(controls, [validators, asyncValidators, updateOn]);
  }
}
```
new FormControl with the given state, validators and options.

*param formState* Initializes the control with an initial state value, or
*param* with an object that contains both a value and a disabled status.

*param* A synchronous validator function, or an array of
*param* such functions, or an

AbstractControlOptions object that contains validation functions and a validation trigger.

*param* A single async validator or array of async validators.

### Initialize a control as disabled

The following example returns a control with an initial value in a disabled state.

```ts
*code-example path="forms/ts/formBuilder/form_builder_example.ts" region="disabled-control">
</code-example>

### Initialize a control as disabled

A synchronous validator function, or an array of such functions, or an AbstractControlOptions object that contains validation functions and a validation trigger.

*param* A single async validator or array of async validators.

### Initialize a control as disabled

A synchronous validator function, or an array of such functions, or an AbstractControlOptions object that contains validation functions and a validation trigger.

*param* A single async validator or array of async validators.

### Initialize a control as disabled

A synchronous validator function, or an array of such functions, or an AbstractControlOptions object that contains validation functions and a validation trigger.

*param* A single async validator or array of async validators.

### Initialize a control as disabled

A synchronous validator function, or an array of such functions, or an AbstractControlOptions object that contains validation functions and a validation trigger.

*param* A single async validator or array of async validators.

### Initialize a control as disabled

A synchronous validator function, or an array of such functions, or an AbstractControlOptions object that contains validation functions and a validation trigger.

*param* A single async validator or array of async validators.

### Initialize a control as disabled

A synchronous validator function, or an array of such functions, or an AbstractControlOptions object that contains validation functions and a validation trigger.

*param* A single async validator or array of async validators.
options

`* * * warnOnNgModelWithFormControl` Configures when to emit a warning when an `ngModel`

binding is used with reactive form directives.

`* * * static withConfig( opts: { `* * * @deprecated as of v6 */

warnOnNgModelWithFormControl: 'never' | 'once' | 'always' }); ModuleWithProviders<ReactiveFormsModule>

`* * * return { `* * * ngModule: ReactiveFormsModule, `* * * providers: [ `* * * provide:

NG_MODEL_WITH_FORM_CONTROL_WARNING, `* * * useValue: opts.warnOnNgModelWithFormControl

} ] }`; * Generated bundle index. Do not edit. * * * @ngexport * from './index';

```typescript
{ InternalFormsSharedModule as InternalFormsSharedModule, ReactiveFormsModule as ReactiveFormsModule,
  templateDrivenDirectives as templateDrivenDirectives, sharedFormDirectives as sharedFormDirectives,
  reactiveDrivenDirectives as reactiveDrivenDirectives, forms as forms,
  defaultValueAccessor as defaultValueAccessor, checkboxValueAccessor as checkboxValueAccessor,
  numberValueAccessor as numberValueAccessor, radioValueAccessor as radioValueAccessor,
  rangeValueAccessor as rangeValueAccessor, ngModelWithFormControl as ngModelWithFormControl,
  formControlBinding as formControlBinding, formDirectiveProvider as formDirectiveProvider,
  NgNoValidate as NgNoValidate, NgSelectMultipleOption as NgSelectMultipleOption,
  selectValueAccessor as selectValueAccessor, NgSelectMultipleOption as NgSelectMultipleOption,
  checkboxRequiredValidator as checkboxRequiredValidator, emailValidator as emailValidator,
  maxLengthValidator as maxLengthValidator, minLengthValidator as minLengthValidator,
  patternValidator as patternValidator, requiredValidator as requiredValidator;
```
Open Source Used in MSX SD-WAN Service Pack 4.0.0
Open Source Used In MSX SD-WAN Service Pack 4.0.0
1.782 udev 3.2.5

1.782.1 Available under license:

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*/opt/ws_local/PERMITS_SQL/1021462020_1591378229.44/0/opensaml-saml-impl-3-3-1-sources-jar/org/opensaml/saml2/ecp/impl/RequestAuthenticatedImpl.java
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1.791 yaml 2.3.0

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/** Java 1.5 Recognizer  
* Run 'java Main [-showtree] directory-full-of-java-files'  
*  
* [The -showtree option pops up a Swing frame that shows  
* the AST constructed from the parser.]  
*  
* Run 'java Main <directory full of java files>'  
*  
* Contributing authors:  
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*      Steve Messick       messick@redhills.com  
*      John Pybus          john@pybus.org  
*  
* Version 1.00 December 9, 1997 -- initial release  
* Version 1.01 December 10, 1997  
*fixed bug in octal def (0..7 not 0..8)  
* Version 1.10 August 1998 (parrt)  
*added tree construction  
*fixed definition of WS,comments for mac,pc,unix newlines  
*added unary plus  
* Version 1.11 (Nov 20, 1998)  
*Added "shutup" option to turn off last ambig warning.  
*Fixed inner class def to allow named class defs as statements  
*synchronized requires compound not simple statement  
*add [] after builtInType DOT class in primaryExpression  
*"const" is reserved but not valid..removed from modifiers  
* Version 1.12 (Feb 2, 1999)  
*Changed LITERAL_xxx to xxx in tree grammar.  
*Updated java.g to use tokens [...] now for 2.6.0 (new feature).  
*  
* Version 1.13 (Apr 23, 1999)  
*Didn't have (stat)? for else clause in tree parser.  
*Didn't gen ASTs for interface extends. Updated tree parser too.  
*Updated to 2.6.0.  
* Version 1.14 (Jun 20, 1999)  
*Allowed final/abstract on local classes.  
*Removed local interfaces from methods
*Put instanceof precedence where it belongs...in relationalExpr
*It also had expr not type as arg; fixed it.
*Missing ! on SEMI in classBlock
*fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
*fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
*Screwed up rule with instanceof in it. :(  Fixed.
*Tree parser didn't like (expr).something; fixed.
*Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
*Extending an interface built a wacky tree: had extra EXTENDS.
*Tree grammar didn't allow multiple superinterfaces.
*Tree grammar didn't allow empty var initializer: {} 
* Version 1.17 (October 12, 1999)
*ESC lexer rule allowed 399 max not 377 max.
*java.tree.g didn't handle the expression of synchronized
*statements.
* Version 1.18 (August 12, 2001)
* Terence updated to Java 2 Version 1.3 by
*observing/combining work of Allan Jacobs and Steve
*Messick. Handles 1.3 src. Summary:
* o  primary didn't include boolean.class kind of thing
* o  constructor calls parsed explicitly now:
*   see explicitConstructorInvocation
* o add strictfp modifier
* o  missing objBlock after new expression in tree grammar
* o  merged local class definition alternatives, moved after declaration
* o  fixed problem with ClassName.super.field
* o  reordered some alternatives to make things more efficient
* o  long and double constants were not differentiated from int/float
* o  whitespace rule was inefficient: matched only one char
* o  add an examples directory with some nasty 1.3 cases
* o  made Main.java use buffered IO and a Reader for Unicode support
* o  supports UNICODE?
* Using Unicode charVocabulary makes code file big, but only
* in the bitsets at the end. I need to make ANTLR generate
* unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
*Terence added in nice fixes by John Pybus concerning floating
*constants and problems with super() calls. John did a nice
*reorg of the primary/postfix expression stuff to read better
*and makes f.g.super() parse properly (it was METHOD_CALL not
*a SUPER_CTOR_CALL). Also:
*
* o  "finally" clause was a root...made it a child of "try"
* o  Added stuff for asserts too for Java 1.4, but *commented out*
* as it is not backward compatible.
* Version 1.20 (October 27, 2002)
* Terence ended up reorging John Pybus' stuff to
* remove some nondeterminisms and some syntactic predicates.
* Note that the grammar is stricter now; e.g., this(...) must
* be the first statement.
* Ternary ?: operator wasn't working as array name:
* (isBig ? bigDigits : digits)[i];
* Checked parser/tree parser on source for
* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
* and the 110k-line jGuru server source.
* Version 1.21 (October 17, 2003)
* Fixed lots of problems including:
* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
* He found a problem/fix with floating point that start with 0
* Ray also fixed problem that (int.class) was not recognized.
* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
* TJP fixed CHAR_LITERAL analogously.
* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
* Notes:
* o We only allow the "extends" keyword and not the "implements"
* keyword, since that's what JSR14 seems to imply.
* o Thanks to Monty Zukowski for his help on the antlr-interest
* mail list.
* o Thanks to Alan Eliasen for testing the grammar over his
* Fink source base
* Version 1.22 (July, 2004)
* Changes by Michael Studman to support Java 1.5 language extensions
* Notes:
* o Added support for annotations types
* o Finished off Matt Quail's generics enhancements to support bound type arguments
* o Added support for new for statement syntax
* o Added support for static import syntax
* o Added support for enum types
* o Tested against JDK 1.5 source base and source base of jdigraph project
* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
* Version 1.22.1 (July 28, 2004)
* Bug/omission fixes for Java 1.5 language support
* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
* spotting this
* o Fixed bug where incorrect handling of SR and BSR tokens would cause type
*parameters to be recognised as type arguments.
* o Enabled type parameters on constructors, annotations on enum constants
*and package definitions
* o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
*
* Version 1.22.2 (July 28, 2004)
* Slight refactoring of Java 1.5 language support
* o Refactored for/"foreach" productions so that original literal "for" literal
* is still used but the for sub-clauses vary by token type
* o Fixed bug where type parameter was not included in generic constructor's branch of AST
*
* Version 1.22.3 (August 26, 2004)
* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
* and other refactorings
* o Fixed typeParameters omission in identPrimary and newStatement
* o Replaced GT reconciliation code with simple semantic predicate
* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
* o Refactored typeDefinition production and field productions to reduce duplication
*
* Version 1.22.4 (October 21, 2004)
* Small bux fixes
* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
* o Added typeArguments to postfixExpression productions for anonymous inner class super
* constructor invocation, e.g. new Outer().<String>super()
* o Fixed bug in array declarations identified by Geoff Roy
*
* Version 1.22.4.j.1
* Changes by Jeremy Rayner to support java2groovy tool
* o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
* and have made some changes to enable use by java2groovy tool (Jan 2007)
*
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/wrappers/package.html
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/stmt/package.html
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 */
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/GStringImpl.java

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# Format: one extension on each line without the leading ",,.
# Listed below are default groovy source file extensions.

# NOTE: This implementation of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions

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/** JSR-241 Groovy Recognizer.
 *
 * Run 'java Main [-showtree] directory-full-of-groovy-files'
 *
 * [The -showtree option pops up a Swing frame that shows
 * the AST constructed from the parser.]
 *
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* Alex Popescu            the.mindstorm@gmail.com
* Martin Kempf            mkempf@hsr.ch
* Reto Kleebl           rkleebl@hsr.ch

* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
*   fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
*   added tree construction
*   fixed definition of WS, comments for mac, pc, unix newlines
*   added unary plus
* Version 1.11 (Nov 20, 1998)
*   Added "shutup" option to turn off last ambig warning.
*   Fixed inner class def to allow named class defs as statements
*   synchronized requires compound not simple statement
*   add [] after builtInType DOT class in primaryExpression
*   "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
*   Changed LITERAL_xxx to xxx in tree grammar.
*   Updated java.g to use tokens {...} now for 2.6.0 (new feature).

* Version 1.13 (Apr 23, 1999)
*   Didn't have (stat)? for else clause in tree parser.
*   Didn't gen ASTs for interface extends. Updated tree parser too.
*   Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
*   Allowed final/abstract on local classes.
*   Removed local interfaces from methods
*   Put instanceof precedence where it belongs...in relationalExpr
*   It also had expr not type as arg; fixed it.
*   Missing ! on SEMI in classBlock
*   fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
*   fixed: didn't like Object[], class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
*   Screwed up rule with instanceof in it: :( Fixed.
*   Tree parser didn't like (expr).something; fixed.
*   Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
*   Extending an interface built a wacky tree: had extra EXTENDS.
*   Tree grammar didn't allow multiple superinterfaces.
*   Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
  * ESC lexer rule allowed 399 max not 377 max.
  * java.tree.g didn't handle the expression of synchronized statements.
* Version 1.18 (August 12, 2001)
  * Terence updated to Java 2 Version 1.3 by observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
    * o primary didn't include boolean.class kind of thing
    * o constructor calls parsed explicitly now:
      * see explicitConstructorInvocation
    * o add strictfp modifier
    * o missing objBlock after new expression in tree grammar
    * o merged local class definition alternatives, moved after declaration
    * o fixed problem with ClassName.super.field
    * o reordered some alternatives to make things more efficient
    * o long and double constants were not differentiated from int/float
    * o whitespace rule was inefficient: matched only one char
    * o add an examples directory with some nasty 1.3 cases
    * o made Main.java use buffered IO and a Reader for Unicode support
    * o supports UNICODE?
      * Using Unicode charVocabulary makes code file big, but only in the bitsets at the end. I need to make ANTLR generate unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
  * Terence added in nice fixes by John Pybus concerning floating constants and problems with super() calls. John did a nice reorg of the primary/postfix expression stuff to read better and makes f.g.super() parse properly (it was METHOD_CALL not a SUPER_CTOR_CALL). Also:
    * o "finally" clause was a root...made it a child of "try"
    * o Added stuff for asserts too for Java 1.4, but *commented out*
      * as it is not backward compatible.
* Version 1.20 (October 27, 2002)
  * Terence ended up reorging John Pybus' stuff to remove some nondeterminisms and some syntactic predicates.
    * Note that the grammar is stricter now; e.g., this(...) must be the first statement.
    * Trinary ?: operator wasn't working as array name:
      * (isBig ? bigDigits : digits)[i];
    * Checked parser/tree parser on source for
      * Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
      * and the 110k-line jGuru server source.
* Version 1.21 (October 17, 2003)
* Fixed lots of problems including:
* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
* He found a problem/fix with floating point that start with 0
* Ray also fixed problem that (int.class) was not recognized.
* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
* TJP fixed CHAR_LITERAL analogously.
*
* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
* Notes:
* o We only allow the "extends" keyword and not the "implements" keyword, since that's what JSR14 seems to imply.
* o Thanks to Monty Zukowski for his help on the antlr-interest mail list.
* o Thanks to Alan Eliasen for testing the grammar over his Fink source base.
*
* Version 1.22 (July, 2004)
* Changes by Michael Studman to support Java 1.5 language extensions
* Notes:
* o Added support for annotations types
* o Finished off Matt Quail's generics enhancements to support bound type arguments
* o Added support for new for statement syntax
* o Added support for static import syntax
* o Added support for enum types
* o Tested against JDK 1.5 source base and source base of jdigraph project
* o Thanks to Matt Quail for doing the hard part by doing most of the generics work.
*
* Version 1.22.1 (July 28, 2004)
* Bug/omission fixes for Java 1.5 language support
* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
* o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
* o Enabled type parameters on constructors, annotations on enum constants and package definitions
* o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
*
* Version 1.22.2 (July 28, 2004)
* Slight refactoring of Java 1.5 language support
* o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
* o Fixed bug where type parameter was not included in generic constructor's branch of AST
*
* Version 1.22.3 (August 26, 2004)
* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
and other refactorings

- Fixed typeParameters omission in identPrimary and newStatement
- Replaced GT reconciliation code with simple semantic predicate
- Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
- Refactored typeDefinition production and field productions to reduce duplication

* Version 1.22.4 (October 21, 2004)
  - Small bux fixes
  - Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
  - Added typeArguments to postfixExpression productions for anonymous inner class super
  - constructor invocation, e.g. new Outer().<String>super()
  - Fixed bug in array declarations identified by Geoff Roy

* Version 1.22.4.g.1
  - I have taken java.g for Java1.5 from Michael Studman (1.22.4)
  - and have applied the groovy.diff from java.g (1.22) by John Rose
  - back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)

* Version 1.22.4.g.2
  - mkempf, rkleeb, Dec 2007
  - fixed various rules so that they call the correct Create Method
  - to make sure that the line information are correct

* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
  jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java
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# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
#global transformation for AST Builder
org.codehaus.groovy.ast.builder.AstBuilderTransformation

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation

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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/util/concurrentlinkedhashmap/EntryWeigher.java

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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/stc/PickAnyArgumentHint.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/syntax/ParserException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesBinaryExpressionMultiTypeDispatcher.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/GroovySunClassLoader.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MetaClassRegistryImpl.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/GroovyShell.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/IntegerArrayPutAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/tailrec/AstHelper.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaClassSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/builder/AstSpecificationCompiler.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/apache/groovy/ast/tools/VisibilityUtils.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/messages/Message.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/beans/Vetoable.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/VariableExpressionTransformer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayPutAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/vmplugin/v6/Java6.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/sc/ListOfExpressionsExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/AsmClassGenerator.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/ReverseListIterator.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/stc/MapEntryOrKeyValue.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/CallSiteWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MixedInMetaClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/memoize/ConcurrentCommonCache.java
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/builder/Builder.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/messages/WarningMessage.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/Utilities.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Newify.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ClosureStaticMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MixedInMetaClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/syntax/ReadException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/ThreadInterrupt.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/StatementWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/v7/IndyGuardsFiltersAndSignatures.java
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<tr>
<td>/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/runtime/memoize/EvictableCache.java</td>
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</table>

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1.807 oklog-ulid v1.3.1

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  jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
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  jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-
  jar/io/netty/util/internal/AppendableCharSequence.java
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  jar/io/netty/util/Internal/ResourceLeak.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/concurrent/FutureListener.java
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/package-info.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/InternalLogger.java
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/ResourceLeakTracker.java
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-
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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
/**
 * @param mv
 *            the method visitor to which this adapter delegates calls.
 * @param access
 */

/**
 * 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
 * @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 JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])\</i>
 * 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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 */
/**
 * 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})

@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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 */
/**
 * 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
 *            If a subclass calls this constructor.
 */

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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
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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

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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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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](https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html)
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1.819 snake-yaml 1.26
1.819.1 Available under license:

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1.820 akka-actor 2.5.22

1.821 j2objc-annotations 1.3

1.822 neo4j-graphdb-api 3.5.14
1.822.1 Available under license:

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### 1.825 lucene 5.5.0

### 1.826 alpine-keys 2.1-r2

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1.828 parted 3.2

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1.831 curator-framework 2.11.1

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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
org.ow2.asm:asm

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org.apache.tomcat:tomcat-api
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1.843 neo4j-diagnostics 3.5.4

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Eclipse

The following artifacts are EPL.
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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
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
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1.847 certifi 2018.1.18

1.847.1 Available under license:

This package contains a modified version of ca-bundle.crt:

ca-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:

ca-bundle.crt -- Bundle of CA Root Certificates

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@(#) SRCfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
Metadata-Version: 1.1
Name: certifi
Version: 2018.1.18
Summary: Python package for providing Mozilla's CA Bundle.
Home-page: http://certifi.io/
Author: Kenneth Reitz
Author-email: me@kennethreitz.com
License: MPL-2.0
Description: Certifi: Python SSL Certificates

`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``:

```
$ pip install certifi
```

Usage

-----

To reference the installed certificate authority (CA) bundle, you can use the
built-in function::

```
>>> 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/

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
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Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
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1.848 commons-configuration 1.7
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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

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

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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
open-source-used-in-msx-sd-wan-service-pack-4.0.0

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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1.855 zlib 1.2.8.dfsg 2ubuntu4.1

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1.856 esapi 2.0.1
1.856.1 Available under license:

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 *
 * @author Jeff Williams `<a href="http://www.aspectsecurity.com">Aspect Security</a>`
 * @created 2007
 */

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1.857 wildfly-weld-webservices 19.1.0.Final

1.857.1 Available under license:

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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
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* 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()),
        NamedType('room', Integer()),
        NamedType('house', Integer()),
    )
```

---

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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
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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[repo](https://github.com/etingof/pyasn1-modules).

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ASN.1 library for Python
========================

.. toctree::

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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>`_, `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 [online](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.
Use case
--------

Download & Install
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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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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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1.867 jackson 1.9.13

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1.868 opensaml-profile-api 3.3.1

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 */

/**
 * A predicate implementation that indicates whether the message channel does
 * <strong>NOT</strong> support confidentiality end-to-end.
 *
 * Typically but not exclusively used as a predicate for whether to encrypt something.</p>
 */

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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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* /opt/cola/permits/1111302142_1606896640.05/0/opensaml-profile-api-3-3-1-sources-1-jar/org/opensaml/profile/context/navigate/package-info.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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* 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

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

-----
Assorted

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1.882 jaxb-impl 2.2.7

1.883 iperf 3.5

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stdio.c
by Mark Gates <mgates@nlanr.net>
and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>

input and output numbers, converting with kilo, mega, giga
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Open Source Used In MSX SD-WAN Service Pack 4.0.0 6568
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>";
}

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;

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     */
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;
}

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package com.hazelcast.security.permission;
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;
    }
}
} 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;
}
}
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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 = 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;
}
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;
        }
    }
}
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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 */
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;

package com.hazelcast.security.permission;

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)
            && (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() {
return Collections.unmodifiableSet(perms);
}

@override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}

*/

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 */

package com.hazelcast.security.permission;

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.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 CardinalityEstimatorPermission(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) {

    }

    @Override
    public boolean equals(Object obj) {

    }
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
*/
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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;
            }
            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 LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, 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;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        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;
            }
        }

        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;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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1.899 xorg 7.7+19

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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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1.918 libunistring 0.9.10 1

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/**
 * Encodes and decodes to and from Base64 notation.
 */

<p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>

<p>Example:</p>

<i>String encoded = Base64.encode( myByteArray );</i>

<i>byte[] myByteArray = Base64.decode( encoded );</i>

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
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 `#decodeToObject(java.lang.String, int, java.lang.ClassLoader)` method.
- **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.
- **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 `#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>
   * <em>Does not break lines, by default.</em> This is to keep in compliance with
   * <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.IOExceptions
     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.</li>
   * <em>Removed all references to System.out, System.err, and the like.</em></li>
   * Shame on me. All I can say is sorry they were ever there.</li>
   * <em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed
     such as when passed arrays are null or offsets are invalid.</li>
   * <em>Cleaned up as much javadoc as I could to avoid any javadoc warnings.</em>
     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>
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
  when using very small files (~&lt; 40 bytes).</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>
   * The default is RFC3548 format.</li>
   * Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
     URL and file name friendly format as described in Section 4 of RFC3548.
   * 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.
* 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).
* 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).
* v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams.
* 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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* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
* /

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* /opt/cola/permits/1001161134_1615667335.35/0/chill-java-0-7-4-sources-jar/com/twitter/chill/java/IterableRegistrarSerializer.java
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the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

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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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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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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.

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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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"""copyright.py
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.
"""
import datetime
import os
import os.path
import subprocess

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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('
'):
        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.getcwdf())
    os.chdir(root_dir)

e = get_update_list()
update_files (e)

# 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." "\n    "\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/armcpro.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",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id-insn.h",
)
if __name__ == '__main__':
    main()
BEGIN{
    FS="\"";
    print "/* ==> Do not modify this file!! " \
    "-*- buffer-read-only: t -*- vi" \
    ":set ro:";
    print " It is created automatically by copying.awk.";
    print " Modify copying.awk instead. <==" \
    "*/\n"
    print "#include "defs.h"
    print "#include "command.h"
    print "#include "gdbcmd.h"
    print "static void show_copying_command (char *, int);"
    print "static void show_warranty_command (char *, int);"
    print "void _initialize_copying (void);"
    print "static void";
    print "show_copying_command (char *ignore, int from_tty);"
    print "{";
}
NR == 1;/^[ ]*15\. Disclaimer of Warranty\[ ]*$/{
    if ($0 ~ //)
    {
        printf " printf_filtered ("\n\n");\n";
    }
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\[ ]*$/{
    }
    printf " printf_filtered (""
    for (i = 1; i < NF; i++)
    printf "\s\\n", $i;
    printf "\s\n", $NF;
}
}/**[ ]*15\. Disclaimer of Warranty\[ ]*$/{
    print ";";print "";
    printf "static void";
    printf "show_warranty_command (char *ignore, int from_tty);"
    printf ";";
}/**[ ]*15\. Disclaimer of Warranty\[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS\[ ]*$/{
    if (!$0 ~ /^[ ]*END OF TERMS AND CONDITIONS\[ ]*$/)
    {
        printf " printf_filtered (""
        for (i = 1; i < NF; i++)
        printf "\s\s\n", $i;
    }
}
printf "\n%s\n\n", $NF;
}
END{
  print "\n};
  print "\n\n\nvoid\n
initialize_copying (void);
\n  add_cmd ("copying", no_set_class, show_copying_command,\n    \"Conditions for redistributing copies of GDB.\"),\n  \&showlist);\n\n  add_cmd ("warranty", no_set_class, show_warranty_command,\n    \"Various kinds of warranty you do not have.\"),\n  \&showlist);\n\n  /* For old-timers, allow \"info copying\", etc. */\n  add_info (\"copying\", show_copying_command,\n    \"Conditions for redistributing copies of GDB.\");\n\n  add_info (\"warranty\", show_warranty_command,\n    \"Various kinds of warranty you do not have.\");\n\n  };
}

1.925 jsr311-api 1.1.1

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1.926 java-driver-shaded-guava 25.1-jre

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1085011861_1598862657.64/0/dastax-java-driver-shaded-guava-25-1-jre-0-g763d526-tar-gz/dastax-java-driver-shaded-guava-c44412c/pom.xml

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Shaded Guava artifact, for use in the [DataStax Java driver for Apache Cassandra](https://github.com/datastax/java-driver).

We publish this as a separate artifact to avoid re-shading it in every driver version (and every module in each version). The build process creates a sources JAR with the relocated packages, but at this stage the javadocs JAR is empty.

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1.933 jboss-ejb-client 4.0.30.Final

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1.935 vault-api v1.0.4
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# `/sys/license`

-> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request

```
$ curl \\
   --header "X-Vault-Token: ..." \\
   http://127.0.0.1:8200/v1/sys/license
``` 

### Sample Response

```
jso
|
"expiration_time": "2017-11-14T16:34:36.546753-05:00",
```
## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters

- `text` *(string: <required>)* - The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload

```
```
```json
{
  "text": "01ABCDEFG..."
}
```
```

### Sample Request

```
```
```

$ curl
   --header "X-Vault-Token: ..." \
   --request PUT \
   --data @payload.json \
   http://127.0.0.1:8200/v1/sys/license
```
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mgo - MongoDB driver for Go
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import (　
  "context"
  "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.

// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
  Name *string `json:"name",omitempty`
  Path *string `json:"path",omitempty`
}
SHA  *string `json:"sha,omitempty"`
Size  *int `json:"size,omitempty"`
URL  *string `json:"url,omitempty"`
HTMLURL  *string `json:"html_url,omitempty"`
GitURL  *string `json:"git_url,omitempty"`
DownloadURL *string `json:"download_url,omitempty"
Type  *string `json:"type,omitempty"`
Content  *string `json:"content,omitempty"`
Encoding  *string `json:"encoding,omitempty"`
License  *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    SPDXID         *string   `json:"spdx_id,omitempty"`
    HTMLURL        *string   `json:"html_url,omitempty"`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Permissions    *]*string `json:"permissions,omitempty"`
    Conditions     *]*string `json:"conditions,omitempty"`
    Limitations    *]*string `json:"limitations,omitempty"`
    Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    var licenses []License
    resp, err := s.client.Do(ctx, req, &licenses)
if err != nil {
    return nil, resp, err
}

return licenses, resp, nil

// Get extended metadata for one license.

// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool { return false }

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1.936 minlog 1.2

1.937 minicom 2.7.1
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Modemu Version 0.0.1

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094802804_1601320403.27/0/wildfly-elytron-x500-cert-acme-1-11-4-final-
1.941 python-certifi 2018.1.18
1.941.1 Available under license:
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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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.942 stax-ex 1.8.1
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^L

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Also add information on how to contact you by electronic and paper mail.

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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=
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=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 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.
> >=20
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not
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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
> > 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-ipv6.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 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: <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=fowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E9F@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>

> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> 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

---

Open Source Used In MSX SD-WAN Service Pack 4.0.0 7279

1.946 kbd 1.15.5 1ubuntu5

1.946.1 Available under license:

1.946.1.1 Available under license:
Files: *
Copyright: 19941999, Andries E. Brouwer, 20072012, Alexey Gladkov <gladkov.alexey@gmail.com>
License: GPL-2+
All files in this package may be freely copied under the terms of the GNU General Public License (GPL), version 2, or at your option any later version except possibly for the restrictions mentioned in the directory consolefonts.
.
On Debian systems, the full text of the earliest applicable version of the GNU General Public License can be found in the file /usr/share/common-licenses/GPL-2.

Files: src/kbdrate.c
Copyright: 1992, Rickard E. Faith
License: GPL-any

Files: src/dumpkeys.c src/loadkeys.y src/analyzsel src/ksyms.c src/ksyms.h src/showkey.c src/loadkeys.1 man/man1/dumpkeys.1 man/man1/showkey.1 man/man5/keymaps.5
Copyright: 1993, Risto Kankkunen
License: GPL-any

Files: src/setfont.c man/man8/setfont.8 src/mapscrn.c man/man8/mapscrn.8 src/loadkeys.y
Copyright: 1993, Eugene G. Crosser
License: GPL-any

Files: man/man1/psfaddtable.1 man/man1/psfgettable.1 man/man1/psfstriptable.1
Copyright: 1994, H. Peter Anvin
License: GPL-any

Open Source Used In MSX SD-WAN Service Pack 4.0.0 7282
Files: src/chvt.c src/clrunimap.c src/deallocvt.c src/fgconsole.c
   src/findfile.c src/getfd.c src/getkeycodes.c src/getunimap.c
   src/kbd_mode.c src/loadunimap.c src/psffontop.c src/psfxtable.c
   src/resisecons.c src/screendump.c src/setkeycodes.c src/setleds.c
   src/setmetamode.c src/setvesablank.c src/showconsolefont.c
   src/spawn_console.c src/spawn_login.c man/man1/chvt.1
   man/man1/deallocvt.1 man/man1/kbd_mode.1 man/man1/setleds.1
   man/man1/setmetamode.1 man/man8/getkeycodes.8
   man/man8/loadunimap.8 man/man8/resizecons.8
   man/man8/setkeycodes.8
Copyright: 19941999, Andries E. Brouwer
License: GPL-any

Files: man/man1/misc/splitfont.1 man/man1/openvt.1
   man/man8/misc/setlogcons.8 man/man8/misc/vcstime.8
Copyright: 20072008, Alexey Gladkov <gladkov.alexey@gmail.com>
License: GPL-any

Files: src/setvtrgb.c
Copyright: 2011, Alexey Gladkov <gladkov.alexey@gmail.com>,
   2011, Canonical Ltd (Seth Forshee <seth.forshee@canonical.com>
   and Dustin Kirkland <kirkland@canonical.com>)
License: GPL-any

Files: src/vlock/*
Copyright: 19941998, Michael K. Johnson <johnsonm@redhat.com>
   19971998, Juan Cespedes <cespedes@debian.org>
   20022006, Dmitry V. Levin <ldv@altlinux.org>
License: GPL-2+

Files: debian/*
Copyright: 1991-2001, Yann Dirson <dirson@debian.org>,
   2001, Alcove <http://alcove.fr/>,
   2004, Wartan Hachaturow <wart@debian.org>,
   20042006, Denis Barbier <barbier@debian.org>,
   2007, Anton Zinoviev <zinoviev@debian.org>,
   20082013, Michael Schutte <michi@debian.org>
License: GPL-2+

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under the terms of the GNU General Public License as published by the
The file

`kbdrate.c`

is Copyright (C) 1992 Rickard E. Faith.

The files

`dumpkeys.c loadkeys.y loadkeys.analyze1 ksym.s ksyms.h showkey.c keymaps.5 loadkeys.1 dumpkeys.1 showkey.1`

are Copyright (C) 1993 Risto Kankkunen.

The files

`setfont.c setfont.8 mapscrn.c mapscrn.8`

(and changes to loadkeys.y)

are Copyright (C) 1993 Eugene G. Crosser.

The files

`psfaddtable.1 psfgettable.1 psfstripable.1`

are Copyright (C) 1994 H. Peter Anvin.

The files

`chvt.c clrunimap.c deallocvt.c fgconsole.c findfile.c getfd.c getkeycodes.c getunimap.c kbd_mode.c loadunimap.c psffontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c setleds.c setmetamode.c setvesablank.c showconsolefont.c spawn_console.c spawn_login.c chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1 getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8 kbd.FAQ.*`

(and changes to earlier mentioned programs)

are Copyright (C) 1994-1999 Andries E. Brouwer.

The file

`openvt.c`

is Copyright (C) 1994 by Jon Tombs <jon@gtex02.us.es>

portions also authors: Andries E. Brouwer <aeb@cwi.nl>

Joshua Spoerri <josh@cooper.edu>

Chuck Martin <cmartin@bigfoot.com>

Alexey Gladkov <gladkov.alexey@gmail.com>

The file
kbdinfo.c
is Copyright (C) 2011 Alexey Gladkov.

The file
setvtrgb.c
is Copyright (C) 2011 Alexey Gladkov,
portions also Copyright (C) 2011 Canonical Ltd.
Authors: Seth Forshee <seth.forshee@canonical.com>
        Dustin Kirkland <kirkland@canonical.com>

The files
auth.c pam_auth.h pam.c parse.c screen.c username.c vlock.c vlock.h vt.c
is Copyright (C) 1994-1998 Michael K. Johnson <johnsonm@redhat.com>
Copyright (C) 2002-2006 Dmitry V. Levin <ldv@altlinux.org>

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option any later version - except possibly for the restrictions
mentioned in the directory consolefonts.

1.947 jzlib 1.1.1

1.948 jackson-jaxrs-base 2.10.1
1.948.1 Available under license :
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

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  jar/org/jboss/classfilewriter/DefaultClassFactory.java
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  jar/org/jboss/classfilewriter/ClassFactory.java

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  jar/org/jboss/classfilewriter/annotations/ArrayAnnotationValue.java
* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1.2.4-final-sources-1-
  jar/org/jboss/classfilewriter/ClassFile.java
* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1.2.4-final-sources-1-
  jar/org/jboss/classfilewriter/ClassMethod.java
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  jar/org/jboss/classfilewriter/annotations/AnnotationAnnotationValue.java
* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter/annotations/AnnotationBuilder.java
* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter/Annotations/ShortAnnotationValue.java
* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter/code/TableSwitchBuilder.java
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* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter/code/CodeAttribute.java
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* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter/code/CodeAttribute.java
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* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter/attributes/SignatureAttribute.java
* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1.2.4-final-sources-1-
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    <artifactId>jboss-parent</artifactId>
    <version>24</version>
  </parent>

  <groupId>org.jboss.classfilewriter</groupId>
</project>
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<version>1.2.4.Final</version>

<packaging>jar</packaging>
<description>A bytecode writer that creates .class files at runtime</description>

<name>classfilewriter</name>
<url>https://github.com/jbossas/jboss-classfilewriter</url>

<developers>
<developer>
<name>Stuart Douglas</name>
<email>sdouglas@redhat.com</email>
</developer>
</developers>

<licenses>
<license>
<name>Apache License, version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
</license>
</licenses>

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<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

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<artifactId>junit</artifactId>
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</configuration>
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  <groupId>org.apache.felix</groupId>
  <artifactId>maven-bundle-plugin</artifactId>
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  <extensions>true</extensions>
  <configuration>
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      <Bundle-Version>${project.version}</Bundle-Version>
      <Export-Package>
        org.jboss.classfilewriter.*;version=${project.version}
      </Export-Package>
    </instructions>
  </configuration>
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    <execution>
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      </goals>
      <phase>package</phase>
    </execution>
  </executions>
</plugin>
</plugins>
</build>

<scm>
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  <developerConnection>scm:git@github.com:jbossas/jboss-classfilewriter.git</developerConnection>
  <url>scm:git://github.com/jbossas/jboss-classfilewriter.git</url>
</scm>

</project>

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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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* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1-2-4-final-sources-1- jar/org/jboss/classfilewriter/util/Signatures.java

1.950  jquery-ui 1.11.4

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1.951  schemacrawler-api 15.04.01

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1.952 jackson-databind 2.9.8

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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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1.953 audit 2.4.5 1ubuntu2.1
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1.956 libgcc 1:8.2.0-1ubuntu2~18.04
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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.

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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
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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, 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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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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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13Date.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Date.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13DateImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14DateImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13StackTraceElement.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14StackTraceElement.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13StackTraceElementImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14StackTraceElementImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13StackTraceElementImpl2.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14StackTraceElementImpl2.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13StackTraceElementImpl3.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14StackTraceElementImpl3.java
jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/Log.java
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 */

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java

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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
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
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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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.. highlightlang:: none

.. _history-and-license:

*******************
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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 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.

All Python releases are Open Source (see https://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.
| Release        | Derived from | Year       | Owner      | GPL compatible? |
|----------------+--------------+------------+------------+-----------------|
| 0.9.0 thru 1.2 | n/a          | 1991-1995  | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999  | CNRI       | yes             |
| 1.6            | 1.5.2        | 2000       | CNRI       | no              |
| 2.0            | 1.6          | 2000       | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001       | CNRI       | no              |
| 2.1            | 2.0+1.6.1    | 2001       | PSF        | no              |
| 2.0.1          | 2.0+1.6.1    | 2001       | PSF        | yes             |
| 2.1.1          | 2.1+2.0.1    | 2001       | PSF        | yes             |
| 2.1.2          | 2.1.1        | 2002       | PSF        | yes             |
| 2.1.3          | 2.1.2        | 2002       | PSF        | yes             |
| 2.2 and above  | 2.1.1        | 2001-now   | PSF        | yes             |

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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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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
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- Arguments more compliant with Python standard

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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
---------------

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-------
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libmpdec
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The `decimal` module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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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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1.982 gocqlx 1.3.1

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* /opt/cola/permits/1111302152_1606896609.36/0/opensaml-security-impl-3-3-1-sources-1-jar/org/opensaml/security/httpclient/impl/SecurityEnhancedHttpClientSupport.java
* /opt/cola/permits/1111302152_1606896609.36/0/opensaml-security-impl-3-3-1-sources-1-jar/org/opensaml/security/x509/impl/KeyStoreX509CredentialAdapter.java
* /opt/cola/permits/1111302152_1606896609.36/0/opensaml-security-impl-3-3-1-sources-1-jar/org/opensaml/security/x509/impl/BasicPKIXValidationInformation.java
* /opt/cola/permits/1111302152_1606896609.36/0/opensaml-security-impl-3-3-1-sources-1-jar/org/opensaml/security/credential/config/package-info.java
* /opt/cola/permits/1111302152_1606896609.36/0/opensaml-security-impl-3-3-1-sources-1-jar/org/opensaml/security/credential/criteria/impl/EvaluableEntityIDCredentialCriterion.java
* /opt/cola/permits/1111302152_1606896609.36/0/opensaml-security-impl-3-3-1-sources-1-jar/org/opensaml/security/credential/impl/ChainingCredentialResolver.java
* /opt/cola/permits/1111302152_1606896609.36/0/opensaml-security-impl-3-3-1-sources-1-jar/org/opensaml/security/credential/criteria/impl/EvaluableKeyNameCredentialCriterion.java
* /opt/cola/permits/1111302152_1606896609.36/0/opensaml-security-impl-3-3-1-sources-1-jar/org/opensaml/security/credential/impl/X509KeyManagerX509CredentialAdapter.java
1.1000 smallrye-fault-tolerance 4.1.1

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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/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/pool/ChannelPool.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/pool/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
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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/pool/MaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/pool/MaxMessagesRecvByteBufAllocator.java

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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/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
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jar/io/netty/channel/ChannelId.java
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jar/io/netty/channel/ChannelOutboundBuffer.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>
* <p>
* 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 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 {
                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:

// Create a new handler instance per channel.
// See ChannelInitializer#initChannel(Channel).
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 AttributeKey's which is provided by
{@link ChannelHandlerContext}:

public interface Message {
    // your methods here
}

// Create a new handler instance per channel.
// See ChannelInitializer#initChannel(Channel).
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 AttributeKey's which is provided by
{@link ChannelHandlerContext}:

public interface Message {
    // your methods here
}
* public class DataServerHandler extends @link SimpleChannelInboundHandler<Message>&gt; {*
*     private final @link AttributeKey&lt;@link Boolean&gt; &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();
*             }
*         }
*         ...*
* }*
* </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.
* 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.
* <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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  jar/io/netty/bootstrap/FailedChannel.java
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  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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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/ReflectiveChannelFactory.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/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/PendingWriteQueue.java

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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/SelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/SelectStrategyFactory.java
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  jar/io/netty/channel/DefaultSelectStrategyFactory.java
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  jar/io/netty/channel/ChannelGroupFuture.java
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  jar/io/netty/channel/group/VoidChannelGroup.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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1.1003 dom4j 1.6.1

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History:
Date   Who    What
28oct1999 dl    Created
14dec1999 dl   jmm snapshot
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19apr2000  dl  use barrierLock
12jan2001  dl  public release
17nov2001  dl  Minor tunings
20may2002  dl  BarrierLock can now be serialized.
09dec2002  dl  Fix interference checks.
/*

Found in path(s):
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  jar/org/dom4j/tree/ConcurrentReaderHashMap.java
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  */opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/LeafTreeNode.java
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1.1006 run-postinsts 1.0

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1.1007 x-text v0.3.5

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java/validation/metadata/ReturnValueDescriptor.java
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* /opt/cola/permits/1110631072_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1110631072_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java
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* /opt/cola/permits/1110631072_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/metadata/MethodType.java
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1.1026 go-yaml 2.2.8

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1.1027 asm-debug-all 5.1

1.1028 perfmark-api 0.19.0

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1.1036 errors 0.8.1

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* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/Span.java
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/codec/BytesEncoder.java
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/ForwardingStorageComponent.java
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/v1/V2SpanConverter.java
jar/zipkin2/codec/DependencyLinkBytesEncoder.java
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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
 * @param securePort the secure port to redirect to.
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */

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* /opt/ cola/permits/1003538610_1624302229.37/0/jetty-server-9-4-2-v20170220-sources-jar/org/eclipse/jetty/server/NCSARequestLog.java
* /opt/ cola/permits/1003538610_1624302229.37/0/jetty-server-9-4-2-v20170220-sources-jar/org/eclipse/jetty/server/session/SessionData.java
* /opt/ cola/permits/1003538610_1624302229.37/0/jetty-server-9-4-2-v20170220-sources-jar/org/eclipse/jetty/server/handler/ResourceHandler.java
* /opt/cola/permits/1003538610_1624302229.37/0/jetty-server-9-4-2-v20170220-sources-jar/org/eclipse/jetty/server/HttpTransport.java
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* /opt/cola/permits/1003538610_1624302229.37/0/jetty-server-9-4-2-v20170220-sources-jar/org/eclipse/jetty/server/jmx/AbstractConnectorMBean.java
* /opt/cola/permits/1003538610_1624302229.37/0/jetty-server-9-4-2-v20170220-sources-jar/org/eclipse/jetty/server/SessionDataStoreFactory.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate validator/internal/properties/Getter.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/org/hibernate/validator/cfg/defs/pl/REGONDef.java
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* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/META-INF/validation-configuration-1.1.xsd
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/META-INF/validation-configuration-2.0.xsd
* /opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1.jar/
/*
* Hibernate Validator, declare and validate application constraints
*
* License: Apache License, Version 2.0
* See the license.txt file in the root directory or <http://www.apache.org/licenses/LICENSE-2.0>.
*/
/**
* 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 <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> 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]. The default provider will
* return the actual parameter names, if the -parameters compiler option
* has been enabled, and [@code arg0], [@code arg1] etc. otherwise.
* *
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* *
* Can be specified on any method or constructor.
* *
* @author Gunnar Morling
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1073022525_1595251909.25/0/hibernate-validator-6-1-5-final-sources-1-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
1.1046 e2fsprogs 1.42.13 1ubuntu1.1

1.1046.1 Available under license:

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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*/

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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Theodore Ts'o
23-June-2007

-------------------------------------------------------------

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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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"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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(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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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
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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.)

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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"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBSJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBSJS))
$(MV) pic/$(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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1.1049 grpc-context 1.28.0

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1.1050 base-files 3.0.14
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input and output numbers, converting with kilo, mega, giga

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  jar/org/wildfly/security/sasl/auth/util/AuthenticationContextSaslServer.java
* /opt/ws_local/PERMITS_SQL/1094807981_1601319751.55/0/wildfly-elytron-sasl-auth-util-1-11-4-final-sources-
  jar/org/wildfly/security/sasl/auth/util/AuthenticationContextSaslClientFactory.java
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  jar/org/wildfly/security/sasl/auth/util/AuthenticationContextSaslClient.java
* /opt/ws_local/PERMITS_SQL/1094807981_1601319751.55/0/wildfly-elytron-sasl-auth-util-1-11-4-final-sources-
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* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/CtBehavior.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/tools/reflect/Compiler.java
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* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/NotFoundException.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/bytecode/AccessFlag.java
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/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/bytecode/analysis/Frame.java */
/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/express/ConstructorCall.java */
/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/Loader.java */
/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/CtNewWrappedMethod.java */
/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/bytecode/AnnotationDefaultAttribute.java */
/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/convert/TransformWriteField.java */
/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/runtime/DotClass.java */
/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/compiler/ast/MethodDecl.java */
/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/tools/rmi/RemoteException.java */
/* /opt/cola/permits/1110631093_1606841297.59/0/javassist-3-22-0-cr2-sources-2-jar/javassist/ClassPoolTail.java */
1.1058 servlet-api 4.0.1

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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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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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1.1064 vim 7.4

1.1065 errwrap 1.0.0
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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/opensaml/ws/transport/http/HttpClientInTransport.java

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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/trust/X509KeyManager.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/context/SAMLContextProvider.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/context/SAMLContextProviderImpl.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/context/SAMLMessageContext.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/trust/X509TrustManager.java

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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/SAMLBootstrap.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/SAMLDiscovery.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/metadata/AbstractMetadataDelegate.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/metadata/ExtendedMetadataDelegate.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/metadata/ExtendedMetadata.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1.0-10-release-sources.jar/org/springframework/security/saml/metadata/CachingMetadataManager.java

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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/parser/ParserPoolHolder.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/storage/HttpSessionStorageFactory.java
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* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/processor/HTTPPAOS11Binding.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/opensaml/liberty/paos/impl/RequestImpl.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/opensaml/liberty/paos/impl/RequestUnmarshaller.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/opensaml/PaosBootstrap.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/opensaml/liberty/paos/impl/RequestBuilder.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/opensaml/liberty/binding/decoding/HTTPPAOS11Decoder.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/opensaml/liberty/paos/Request.java
* /opt/cola/permits/1077482393_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/opensaml/liberty/paos/impl/RequestMarshaller.java

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* /opt/cola/permits/1077482393_1607389215.60/spring-security-saml2-core-1.0-10-release-sources-jar/org/springframework/security/saml/trust/UntrustedCertificateException.java

1.1073 wildfly-elytron-mechanism-scram

1.11.4.Final

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* /opt/ws_local/PERMITS_SQL/1094802509_1601319962.24/0/wildfly-elytron-mechanism-scram-1-11-4-final-sources-jar/org/wildfly/security/mechanism/scram/ScramInitialClientMessage.java
* /opt/ws_local/PERMITS_SQL/1094802509_1601319962.24/0/wildfly-elytron-mechanism-scram-1-11-4-final-sources-jar/org/wildfly/security/mechanism/scram/ScramUtil.java
* /opt/ws_local/PERMITS_SQL/1094802509_1601319962.24/0/wildfly-elytron-mechanism-scram-1-11-4-final-sources-jar/org/wildfly/security/mechanism/scram/ScramInitialServerResult.java
* /opt/ws_local/PERMITS_SQL/1094802509_1601319962.24/0/wildfly-elytron-mechanism-scram-1-11-4-final-sources-jar/org/wildfly/security/mechanism/scram/ScramClient.java
* /opt/ws_local/PERMITS_SQL/1094802509_1601319962.24/0/wildfly-elytron-mechanism-scram-1-11-4-final-sources-jar/org/wildfly/security/mechanism/scram/ScramFinalClientMessage.java
* /opt/ws_local/PERMITS_SQL/1094802509_1601319962.24/0/wildfly-elytron-mechanism-scram-1-11-4-final-sources-jar/org/wildfly/security/mechanism/scram/ScramMechanism.java

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1.1074 snappy-java 1.1.1.7

1.1075 ustr 1.0.4-5
1.1075.1 Available under license :

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# Contributions to the urllib3 project

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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/@WBRSRtBZDhBFXQB6/>
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* kennethreitz <me@kennethreitz.com>
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* Thomas Kluyver <thomas@kluyver.me.uk>
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* brandon-rhodes <http://rhodesmill.org/brandon>
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* studer <theo.studer@gmail.com>
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* 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 <juanch@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()```.

* 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]

**1.1093 angular-cookies 1.6.6**

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  <dependency>
    <groupId>org.jboss.logmanager</groupId>
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        </configuration>
    </plugin>

    <plugin>
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    </plugin>

    <plugin>
        <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>
            <systemProperties>

        </configuration>
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  <value>${project.build.directory}/surefire-reports</value>
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<property>
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</property>

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  <name>java.util.logging.manager</name>
  <value>org.jboss.logmanager.LogManager</value>
</property>

<property>
  <name>racecondition.dir</name>
  <value>${project.build.testOutputDirectory}</value>
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<executions>
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        </property>
        <property>
          <name>java.util.logging.manager</name>
          <value>org.jboss.logmanager.LogManager</value>
        </property>
      </systemProperties>
      <!-- add this to agent parameter list to enable debug, prop:org.jboss.byteman.debug=true -->
        -javaagent:${settings.localRepository}/org/jboss/byteman/byteman/${version.byteman}/byteman-
        ${version.byteman}.jar=boot:${settings.localRepository}/org/jboss/byteman/byteman/${version.byteman}/byteman-
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    </systemProperties>
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    <detectLinks>false</detectLinks>
    <doclet>net.gleamynode.apiviz.APIviz</doclet>
    <docletArtifact>
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      <artifactId>apiviz</artifactId>
      <version>${version.apiviz}</version>
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    <header><![CDATA[JBoss Modular Service Container]]></header>
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    <bottom><![CDATA[Copyright &copy; 2012 JBoss, a division of Red Hat, Inc.]]></bottom>
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    </links>
  </configuration>
</plugin>
1.1096 python-django 1.11.11 1.el7ost

1.1096.1 Available under license:

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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.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived</th>
<th>Year</th>
<th>Owner</th>
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from

compatible? (1)

0.9.0 thru 1.2
1991-1995 CWI
yes
1.3 thru 1.5.2 1.2
1995-1999 CNRI
yes
1.6
1.5.2
2000
CNRI
no
2.0
1.6
2000
BeOpen.com no
1.6.1
1.6
2001
CNRI
yes (2)
2.1
2.0+1.6.1 2001
PSF
no
2.0.1
2.0+1.6.1 2001
PSF
yes
2.1.1
2.1+2.0.1 2001
PSF
yes
2.1.2
2.1.1
2002
PSF
yes
2.1.3
2.1.2
2002
PSF
yes
2.2 and above 2.1.1
2001-now PSF
yes
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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
===========

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* **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/clia/
.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/clia/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
Open Source Used In MSX SD-WAN Service Pack 4.0.0  8165

ticket. If you're having trouble getting that second set of eyes, see question 1, above.
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1.1097 jackson-dataformat-smile 2.8.11

1.1098 hadoop-auth 2.3.0

1.1099 antlr 3.5.2

1.1100 goprotobuf 1.3.2
1.1100.1 Available under license:

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##
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[ NOTE: MIT has only incorporated the mechglue and spnego change, and
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cmd/krb5/prop/prop_hdr.h
cmd/krb5/kadmin/server/propd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c

Open Source Used In MSX SD-WAN Service Pack 4.0.0 8272
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in:
- `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`
- `lib/gssapi/mechglue/g_context_time.c`
- `lib/gssapi/mechglue/g_time.c`
and the initial implementation of incremental propagation, including
the following new or changed files:

```cpp
g_rel_cred\nlib/gssapi/mechglue/g_rel_name.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mехglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue/g_rel_cred.c\nlib/gssapi/mechglue/g_rel_oid_set.c\nlib/gssapi/mechglue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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
``src/lib/gssapi``, including the following files:

.. parsed-literal::

   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
   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
and the initial implementation of incremental propagation, including
the following new or changed files:

.. 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
   kprop/kproplog.c

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lib/kdb/kdb_log.c
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import os
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
    if line.strip() != '':
        code_seen = True
        ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('/*.'): f = open(fname)
lines = f.readlines()
f.close()
MIT Kerberos License information
================================

.. _mitK5license:

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   :hidden:

   copyright.rst

.. include::  notice.rst

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* /opt/cola/permits/1003070082_1607116520.74/0/slf4j-ext-1-7-22-sources-jar/org/slf4j/profiler/ProfilerManager.java

1.1118 curator-framework 2.8.0
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1.1119 jackson 2.11.3
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1.1134 wildfly-jacorb 19.1.0.Final

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1.1146 grizzly-framework 1.9.8

1.1147 javafaker 0.10

1.1148 wildfly-weld-transactions 19.1.0.Final

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschluss.de>

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1.1157 classmate 1.3.4

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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1.1166 annotations 4.1.1.4

1.1167 threedotslabs-watermill v1.0.2

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2.2.3.RELEASE

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* /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
 */

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* /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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 */

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* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/VPCDerivedInfoStatus.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/GetUpgradeHistoryRequest.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/RemoveTagsResponse.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/CognitoOptions.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/VPCDerivedInfo.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/EncryptionAtRestOptionsStatus.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ElasticsearchDomainStatus.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/GetUpgradeStatusRequest.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/DescribeElasticsearchDomainsRequest.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/DescribeElasticsearchInstanceTypeLimitsResponse.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ReservedElasticsearchInstanceOffering.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/RemoveTagsRequestMarshaller.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/UpgradeElasticsearchDomainResponse.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-
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* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/UpgradeHistory.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ValidationException.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/VPCOptions.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/LogType.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ElasticsearchVersionStatus.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/ElasticsearchBaseClientBuilder.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/DeleteElasticsearchDomainRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/paginators/DescribeReservedElasticsearchInstanceOfferingsPublisher.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ElasticsearchResponseMetadata.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/EBSOptions.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/DescribeElasticsearchDomainRequestMarshaller.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/DeleteElasticsearchDomainRequestResponse.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/CreateElasticsearchDomainResponse.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/ListDomainNamesRequestMarshaller.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/paginators/ListDomainNamesPublisher.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsResponse.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/ListDomainNamesRequestMarshaller.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsResponse.java

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* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsResponse.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/ListDomainNamesRequestMarshaller.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsResponse.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/ListDomainNamesRequestMarshaller.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsResponse.java

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* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsResponse.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/ListDomainNamesRequestMarshaller.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsResponse.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/ListDomainNamesRequestMarshaller.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsResponse.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/ListDomainNamesRequestMarshaller.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsRequest.java

* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchVersionsResponse.java
jar/software/amazon/awssdk/services/elasticsearch/model/LimitExceededException.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/AdditionalLimit.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ServiceSoftwareOptions.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ListTagsRequest.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/AddTagsResponse.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/DescribeElasticsearchDomainRequest.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/RemoveTagsRequest.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/DescribeElasticsearchDomainConfigRequest.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/RecurringChargeListCopier.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/NodeToNodeEncryptionOptionsStatus.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/ElasticsearchDomainStatusListCopier.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/LogPublishingOptionsCopier.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/SnapshotOptions.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/DescribeElasticsearchDomainsRequestMarshaller.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/transform/GetUpgradeStatusRequestMarshaller.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/CompatibleVersionsMap.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/EBSOptionsStatus.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/OptionStatus.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/InstanceCountLimits.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/Limits.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/Option.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/Version.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/Instance.java
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```
{
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        "calculateCrc32FromCompressedData" : false,
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        "customProtocolFactoryFqcn" : null,
        "customResponseMetadata" : null,
        "customRetryPolicy" : null,
        "customServiceMetadata" : null,
        "defaultSimpleMethodTestRegion" : null,
        "deprecatedOperations" : [ ],
        "deprecatedShapes" : [ ],
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"excludeClientCreateMethod" : false,
"modelMarshallerDefaultDefaultValueSupplier" : { },
"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" ]
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"metadata" : {
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"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",
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"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-awsresorccetagging" 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
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"exceptionName" : "LimitExceeded望pect",
"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" : "&lt;p&gt;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.&lt;/p&gt;",
  "httpStatusCode" : 500
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"hasBlobMemberAsPayload" : false,
"input" : {
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  "variableName" : "addTagsRequest",
  "variableType" : "AddTagsRequest",
  "documentation" : "&lt;p&gt;Container for the parameters to the &lt;code&gt;&lt;a href="#AddTagsRequest"&gt;AddTags&lt;/a&gt;&lt;/code&gt; operation. Specify the tags that you want to attach to the Elasticsearch domain.&lt;/p&gt;",
  "simpleType" : "AddTagsRequest",
  "variableSetterType" : "AddTagsRequest"
},
"methodName" : "addTags",
"operationName" : "AddTags",
"paginated" : false,
"returnType" : {
  "returnType" : "AddTagsResponse",
  "documentation" : null
},
"syncReturnType" : "AddTagsResponse"
},
"CancelElasticsearchServiceSoftwareUpdate" : {
  "authenticated" : true,
  "deprecated" : false,
  "documentation" : "&lt;p&gt;Cancels a scheduled service software update for an Amazon ES domain. You can only perform this operation before the &lt;code&gt;AutomatedUpdateDate&lt;/code&gt; and when the &lt;code&gt;UpdateStatus&lt;/code&gt; is in the &lt;code&gt;PENDING_UPDATE&lt;/code&gt; state.&lt;/p&gt;",
  "endpointDiscovery" : null,
  "endpointOperation" : false,
  "endpointTrait" : null,
  "exceptions" : [ {
    "exceptionName" : "BaseException",
    "documentation" : "&lt;p&gt;An error occurred while processing the request.&lt;/p&gt;",
    "httpStatusCode" : null
  }, {
    "exceptionName" : "InternalException",
    "documentation" : "&lt;p&gt;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.&lt;/p&gt;",
    "httpStatusCode" : 500
  }, {
    "exceptionName" : "ResourceNotFoundException",
    "documentation" : "&lt;p&gt;An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.&lt;/p&gt;"
  },
  "hasBlobMemberAsPayload" : false,
"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" : "CancelElasticsearchServiceSoftwareUpdateRequest",
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"variableType" : "CancelElasticsearchServiceSoftwareUpdateRequest",
"documentation" : "<p>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.</p>",
"simpleType" : "CancelElasticsearchServiceSoftwareUpdateRequest",
"variableSetterType" : "CancelElasticsearchServiceSoftwareUpdateRequest"
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"methodName" : "cancelElasticsearchServiceSoftwareUpdate",
"operationName" : "CancelElasticsearchServiceSoftwareUpdate",
"paginated" : false,
"returnType" : {

"returnType" : "CancelElasticsearchServiceSoftwareUpdateResponse",
"documentation" : "<p>The result of a <code>CancelElasticsearchServiceSoftwareUpdate</code> operation. Contains the status of the update.</p>"
}
,"syncReturnType" : "CancelElasticsearchServiceSoftwareUpdateResponse"
],
"CreateElasticsearchDomain" : {

"authenticated" : true,
"deprecated" : false,
"documentation" : "<p>Creates a new Elasticsearch domain. 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>"
},
"endpointDiscovery" : null,
"endpointOperation" : false,
"endpointTrait" : null,
"exceptions" : [ {

"exceptionName" : "BaseException",
"documentation" : "<p>An error occurred while processing the request.</p>"
},
"httpStatusCode" : null
},

"exceptionName" : "DisabledOperationException",
"documentation" : "<p>An error ocurred 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
},
"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" : "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" : "ResourceAlreadyExistsException",
"documentation" : "<p>An exception for creating a resource that already exists. Gives http status code of 400.</p>",
"httpStatusCode" : 400
},
"hasBlobMemberAsPayload" : false,
"input" : {
"variableDeclarationType" : "CreateElasticsearchDomainRequest",
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"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>",
"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
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"hasBlobMemberAsPayload" : false,
"input" : { 
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"variableType" : "DeleteElasticsearchDomainRequest",
"documentation" : "<p>Container for the parameters to the <code>DeleteElasticsearchDomain</code> 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" : { },
"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 href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-enabling-slr" target="_blank">Deleting Elasticsearch Service</a></p>"
Role</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.</p>

```json
"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" : "ValidationException",
    "documentation" : "An exception for missing / invalid input fields. Gives http status code of 400.",
    "httpStatusCode" : 400
 } ],
"hasBlobMemberAsPayload" : false,
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    "variableType" : "DeleteElasticsearchServiceRoleRequest",
    "documentation" : null,
    "simpleType" : "DeleteElasticsearchServiceRoleRequest",
    "variableSetterType" : "DeleteElasticsearchServiceRoleRequest"
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"methodName" : "deleteElasticsearchServiceRole",
"operationName" : "DeleteElasticsearchServiceRole",
"paginated" : false,
"returnType" : {
    "returnType" : "DeleteElasticsearchServiceRoleResponse",
    "documentation" : null
 },
"syncReturnType" : "DeleteElasticsearchServiceRoleResponse"
},
"DescribeElasticsearchDomain" : {
    "authenticated" : true,
    "deprecated" : false,
    "documentation" : "Returns domain configuration information about the specified Elasticsearch domain, including the domain ID, domain endpoint, and domain ARN.",
    "endpointDiscovery" : null,
    "endpointOperation" : false,
    "endpointTrait" : null,
    "exceptions" : [ {
        "exceptionName" : "BaseException",
        "documentation" : "An error occurred while processing the request.",
        "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": "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"
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"methodName": "describeElasticsearchDomainConfig",
"operationName": "DescribeElasticsearchDomainConfig",
"paginated": false,
"returnType": {
"returnType": "DescribeElasticsearchDomainConfigResponse",
"documentation": " 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": " 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": " 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",
"operationName": "DescribeElasticsearchDomains",
"paginated": false,
"returnType": {
"returnType": "DescribeElasticsearchDomainsResponse",
"documentation": "<p>The result of a <code>DescribeElasticsearchDomains</code> request. Contains the status of the specified domains or all domains owned by the account.</p>",
"syncReturnType": "DescribeElasticsearchDomainsResponse"
},
"DescribeElasticsearchInstanceTypeLimits": {
"authenticated": true,
"deprecated": false,
"documentation": "<p>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.</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" : "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" : "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
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],
"hasBlobMemberAsPayload" : false,
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"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 occured 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
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],
"hasBlobMemberAsPayload" : false,
"input" : {
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"variableName" : "describeReservedElasticsearchInstanceOfferingsRequest",
"variableType" : "DescribeReservedElasticsearchInstanceOfferingsRequest",
"documentation" : "<p>Container for parameters to <code>DescribeReservedElasticsearchInstanceOfferings</code> </p>",
"simpleType" : "DescribeReservedElasticsearchInstanceOfferingsRequest",
"variableSetterType" : "DescribeReservedElasticsearchInstanceOfferingsRequest"
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"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
],
"hasBlobMemberAsPayload" : false,
"input" : {
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"variableName" : "describeReservedElasticsearchInstanceOfferingsRequest",
"variableType" : "DescribeReservedElasticsearchInstanceOfferingsRequest",
"documentation" : "<p>Container for parameters to <code>DescribeReservedElasticsearchInstanceOfferings</code> </p>",
"simpleType" : "DescribeReservedElasticsearchInstanceOfferingsRequest",
"variableSetterType" : "DescribeReservedElasticsearchInstanceOfferingsRequest"
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"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
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"hasBlobMemberAsPayload" : false,
"input" : {
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"documentation" : "<p>Container for parameters to <code>DescribeReservedElasticsearchInstanceOfferings</code> </p>",
"simpleType" : "DescribeReservedElasticsearchInstanceOfferingsRequest",
"variableSetterType" : "DescribeReservedElasticsearchInstanceOfferingsRequest"
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"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
],
"hasBlobMemberAsPayload" : false,
An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.

Exception for missing / invalid input fields. Gives http status code of 400.

An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.

Returns a list of upgrade compatible Elasticsearch versions. You can optionally pass a DomainName to get all upgrade compatible Elasticsearch versions for that specific domain.
"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
}
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"hasBlobMemberAsPayload" : false,
"input" : {
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"variableName" : "getCompatibleElasticsearchVersionsRequest",
"variableType" : "GetCompatibleElasticsearchVersionsRequest",
"documentation" : "<p>Container for request parameters to <code><a>GetCompatibleElasticsearchVersions</a></code> operation.</p>",
"simpleType" : "GetCompatibleElasticsearchVersionsRequest",
"variableSetterType" : "GetCompatibleElasticsearchVersionsRequest"
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"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>",
"GetCompatibleElasticsearchVersions"}
"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" : {
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  "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>&lt;a href="GetUpgradeStatus"&gt;GetUpgradeStatus&lt;/a&gt;</code> operation.</p>",
  "simpleType" : "GetUpgradeStatusRequest",
  "variableSetterType" : "GetUpgradeStatusRequest"
},
"methodName" : "getUpgradeStatus",
"operationName" : "GetUpgradeStatus",
"paginated" : false,
"returnType" : {
  "returnType" : "GetUpgradeStatusResponse",
  "documentation" : "<p>Container for response returned by <code>&lt;a href="GetUpgradeStatus"&gt;GetUpgradeStatus&lt;/a&gt;</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
  ],
  "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" : "ValidationException",
    "documentation" : "<p>An exception for missing/invalid input fields. Gives http status code of 400.</p>",
    "httpStatusCode" : 400
  ]
},
  "hasBlobMemberAsPayload" : false,
  "input" : {
    "variableDeclarationType" : "ListElasticsearchInstanceTypesRequest",
    "variableName" : "listElasticsearchInstanceTypesRequest",
    "variableType" : "ListElasticsearchInstanceTypesRequest",
    "documentation" : null,
    "simpleType" : "ListElasticsearchInstanceTypesRequest",
    "variableSetterType" : "ListElasticsearchInstanceTypesRequest"
  },
  "methodName" : "listElasticsearchInstanceTypes",
  "operationName" : "ListElasticsearchInstanceTypes",
  "paginated" : false,
  "returnType" : { "returnType" : "ListElasticsearchInstanceTypesResponse",
    "documentation" : "<p>The result of a <code>ListElasticsearchInstanceTypes</code> operation. Contains the names of all Elasticsearch instance types that are supported for given ElasticsearchVersion</p>"
  },
  "syncReturnType" : "ListElasticsearchInstanceTypesResponse"
}
"exceptionName" : "BaseException",
"documentation" : "<p>An error occurred while processing the request.&lt;/p&gt;",
"httpStatusCode" : null
},
{"exceptionName" : "InternalException",
"documentation" : "&lt;p&gt;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.&lt;/p&gt;",
"httpStatusCode" : 500
},
{"exceptionName" : "ResourceNotFoundException",
"documentation" : "&lt;p&gt;An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.&lt;/p&gt;",
"httpStatusCode" : 409
},
{"exceptionName" : "ValidationException",
"documentation" : "&lt;p&gt;An exception for missing / invalid input fields. Gives http status code of 400.&lt;/p&gt;",
"httpStatusCode" : 400
}.

"hasBlobMemberAsPayload" : false,

"input" : {
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"variableType" : "ListElasticsearchInstanceTypesRequest",
"documentation" : "Container for the parameters to the <code> <a>ListElasticsearchInstanceTypes</a> </code> operation. &lt;/p&gt;",
"simpleType" : "ListElasticsearchInstanceTypesRequest",
"variableSetterType" : "ListElasticsearchInstanceTypesRequest"
},

"methodName" : "listElasticsearchInstanceTypes",
"operationName" : "ListElasticsearchInstanceTypes",
"paginated" : true,
"returnType" : {
"returnType" : "ListElasticsearchInstanceTypesResponse",
"documentation" : "Container for the parameters returned by <code> &lt;a&gt;ListElasticsearchInstanceTypes&lt;/a&gt; </code> operation. &lt;/p&gt;"
},

"syncReturnType" : "ListElasticsearchInstanceTypesResponse"
},

"ListElasticsearchVersions" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "&lt;p&gt;List all supported Elasticsearch versions&lt;/p&gt;",
"endpointDiscovery" : null,
"endpointOperation" : false,
"endpointTrait" : null,
"exceptions" : [{
"exceptionName" : "BaseException",
"documentation" : "&lt;p&gt;An error occurred while processing the request.&lt;/p&gt;"},
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    "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",
  "documentation": "<p>Container for the parameters to the <code><a>ListElasticsearchVersions</a></code> operation. <p>Use <code><a>MaxResults</a></code> to control the maximum number of results to retrieve in a single call. </p> <p>Use <code><a>NextToken</a></code> in response to retrieve more results. If the received response does not contain a NextToken, then there are no more results to retrieve. </p> </p>",
  "simpleType": "ListElasticsearchVersionsRequest",
  "variableSetterType": "ListElasticsearchVersionsRequest"
},
"methodName": "listElasticsearchVersions",
"operationName": "ListElasticsearchVersions",
"paginated": true,
"returnType": {
  "returnType": "ListElasticsearchVersionsResponse",
  "documentation": "<p>Container for the parameters for response received from <code><a>ListElasticsearchVersions</a></code> operation. </p>",
  "syncReturnType": "ListElasticsearchVersionsResponse"
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"ListTags": {
  "authenticated": true,
  "deprecated": false,
  "documentation": "<p>Returns all tags for the given Elasticsearch domain.</p>",
  "endpointDiscovery": null,
  "endpointOperation": false,
  "endpointTrait": null,
  "exceptions": [ {
    "exceptionName": "BaseException",
    "documentation": "<p>An error occurred while processing the request.</p>"}]
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"httpStatusCode" : null
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"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" : "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
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"hasBlobMemberAsPayload" : false,
"input" : {
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"variableName" : "listTagsRequest",
"variableType" : "ListTagsRequest",
"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>",
"simpleType" : "ListTagsRequest",
"variableSetterType" : "ListTagsRequest"
},
"methodName" : "listTags",
"operationName" : "ListTags",
"paginated" : false,
"returnType" : {
"returnType" : "ListTagsResponse",
"documentation" : "<p>The result of a <code>ListTags</code> operation. Contains tags for all requested Elasticsearch domains.</p>",
"syncReturnType" : "ListTagsResponse"
},
"PurchaseReservedElasticsearchInstanceOffering" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "<p>Allows you to purchase reserved Elasticsearch instances.</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" : 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" : "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
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"hasBlobMemberAsPayload" : false,
"input" : {
"variableDeclarationType" : "ListTagsRequest",
"variableName" : "listTagsRequest",
"variableType" : "ListTagsRequest",
"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>",
"simpleType" : "ListTagsRequest",
"variableSetterType" : "ListTagsRequest"
},
"methodName" : "listTags",
"operationName" : "ListTags",
"paginated" : false,
"returnType" : {
"returnType" : "ListTagsResponse",
"documentation" : "<p>The result of a <code>ListTags</code> operation. Contains tags for all requested Elasticsearch domains.</p>",
"syncReturnType" : "ListTagsResponse"
"httpStatusCode" : 409
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"exceptionName" : "ResourceAlreadyExistsException",
"documentation" : "<p>An exception for creating a resource that already exists. Gives http status code of 409.</p>",
"httpStatusCode" : 409
},
"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" : "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
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"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"
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"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.&lt;/p&gt;",
"httpStatusCode" : null
}, {
"exceptionName" : "InternalException",
"documentation" : "&lt;p&gt;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.&lt;/p&gt;",
"httpStatusCode" : 500
}, {
"exceptionName" : "ResourceNotFoundException",
"documentation" : "&lt;p&gt;An exception for accessing or deleting a resource that does not exist. Gives http status
code of 400.&lt;/p&gt;",
"httpStatusCode" : 409
}, {
"exceptionName" : "ValidationException",
"documentation" : "&lt;p&gt;An exception for missing / invalid input fields. Gives http status code of 400.&lt;/p&gt;",
"httpStatusCode" : 400
} ]
},
"hasBlobMemberAsPayload" : false,
"input" : {
"variableDeclarationType" : "StartElasticsearchServiceSoftwareUpdateRequest",
"variableName" : "startElasticsearchServiceSoftwareUpdateRequest",
"variableType" : "StartElasticsearchServiceSoftwareUpdateRequest",
"documentation" : "&lt;p&gt;Container for the parameters to the
&lt;code&gt;&lt;a href="StartElasticsearchServiceSoftwareUpdate">StartElasticsearchServiceSoftwareUpdate</a&gt;&lt;/code&gt; operation. Specifies the name of the Elasticsearch
domain that you wish to schedule a service software update on.&lt;/p&gt;",
"simpleType" : "StartElasticsearchServiceSoftwareUpdateRequest",
"variableSetterType" : "StartElasticsearchServiceSoftwareUpdateRequest"
},
"methodName" : "startElasticsearchServiceSoftwareUpdate",
"operationName" : "StartElasticsearchServiceSoftwareUpdate",
"paginated" : false,
"returnType" : {
"returnType" : "StartElasticsearchServiceSoftwareUpdateResponse",
"documentation" : "&lt;p&gt;The result of a &lt;code&gt;StartElasticsearchServiceSoftwareUpdate&lt;/code&gt; operation. Contains the status of the update.&lt;/p&gt;"
},
"syncReturnType" : "StartElasticsearchServiceSoftwareUpdateResponse"
},
"UpdateElasticsearchDomainConfig" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "&lt;p&gt;Modifies the cluster configuration of the specified Elasticsearch domain, setting as
setting the instance type and the number of instances. &lt;/p&gt;",
"endpointDiscovery" : null,
"endpointOperation" : false,
"endpointTrait" : null,
"exceptions" : [
"exceptionName" : "BaseException",
"documentation" : "&lt;p&gt;An exception for accessing or deleting a resource that does not exist. Gives http status
code of 400.&lt;/p&gt;",
"httpStatusCode" : 409
}, {
"exceptionName" : "ResourceNotFoundException",
"documentation" : "&lt;p&gt;An exception for accessing or deleting a resource that does not exist. Gives http status
code of 400.&lt;/p&gt;",
"httpStatusCode" : 409
}, {
"exceptionName" : "ValidationException",
"documentation" : "&lt;p&gt;An exception for missing / invalid input fields. Gives http status code of 400.&lt;/p&gt;",
"httpStatusCode" : 400
} ]
},
"hasBlobMemberAsPayload" : false,
"input" : {
...
"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" : "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" : "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" : {

"Open Source Used In MSX SD-WAN Service Pack 4.0.0 8799"}
"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": "<p>Container for request parameters to <code><a>UpgradeElasticsearchDomain</a></code> operation.</p>",
  "simpleType": "UpgradeElasticsearchDomainRequest",
  "variableSetterType": "UpgradeElasticsearchDomainRequest"
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"methodName": "upgradeElasticsearchDomain",
"operationName": "UpgradeElasticsearchDomain"
"paginated" : false,
"returnType" : {
    "returnType" : "UpgradeElasticsearchDomainResponse",
    "documentation" : "<p> Container for response returned by <a>UpgradeElasticsearchDomain</a> operation. </p>
}
},
"syncReturnType" : "UpgradeElasticsearchDomainResponse"
}
],
"shapes" : {
"AccessPoliciesStatus" : {
 "c2jName" : "AccessPoliciesStatus",
 "customization" : {
     "artificialResultWrapper" : null,
     "skipGeneratingMarshaller" : false,
     "skipGeneratingModelClass" : false,
     "skipGeneratingUnmarshaller" : false,
     "staxTargetDepthOffset" : 0
 },
 "deprecated" : false,
 "documentation" : "<p>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",
     "defaultValueConsumerFluentSetterDocumentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See </a>Configuring Access Policies</a> for more information.</p>
<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>options(String)</a>}. The reference to this object so that method calls can be chained together.</p>
"deprecated" : false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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.",
"fluentSetterMethodName" : "options",
@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,
"setterDocumentation": "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": "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.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "The status of the access policy 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()]. 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" : 
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

"fluentSetterMethodName" : "status",
"getterDocumentation" : "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",
"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": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p>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": "<p>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 the consumer that will call methods on a consumer that will call methods on the object so that method calls can be chained together.\n@see #options(String)"
  },
  "deprecated": false,
  "documentation": "<p>The access policy configured for the Elasticsearch domain. Access policies may be

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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.

"fluentSetterMethodName" : "options",

@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,

"setterDocumentation": "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.amazonaws.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a> 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 <a href="http://docs.amazonaws.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a> 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",
  "simpleType": "String",
  "variableSetterType": "String"
},

"xmlNameSpaceUri": null,

"Status": {
  "beanStyleGetterMethodName": "getStatus",
  "beanStyleSetterMethodName": "setStatus",
  "c2jName": "Status",
  "c2jShape": "OptionStatus",
  "defaultConsumerFluentSetterDocumentation": "<p>The status of the access policy 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 \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> The status of the access policy for the Elasticsearch domain. See \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" : "\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>}\n @return Returns a reference to this object so that method calls can be chained together.",
"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>\n @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,
"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" : "\n<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that’s included. \n</p>
@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that’s included.\n",
"setterMethodName" : "setStatus",
"setterModel" : {
  "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.\n",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "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.\n",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "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 \n\n<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
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 #options(String)\}.\n
@see \#options(String)\n\nreturn Returns a reference to this object so that method calls can be chained together.\n@see \#options(String)\n",
  "deprecated" : false,
  "documentation" : "The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \n\n<a href="http://docs.aws.amazon.com/elasticsearch-
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.

```json
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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 [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",


@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" : null,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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 [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",


@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" : null,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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 [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",


@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" : null,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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 [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",


@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" : null,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
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.

```java
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "options",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "The status of the access policy for the Elasticsearch domain. See [OptionStatus](#optionstatus) for the status information that's included."
called immediately and its result is passed to { @link #status(OptionStatus)}.

@code
public void getEndpointDiscoveryId() {
    @link OptionStatus.Builder
    return
}
@endcode

@deprecated
@return Returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)

The status of the access policy for the Elasticsearch domain. See

@code
OptionStatus
@endcode
for the status information that's included.

The status of the access policy for the Elasticsearch domain. See

@code
OptionStatus
@endcode
for the status information that's included.

The status of the access policy for the Elasticsearch domain. See

@code
OptionStatus
@endcode
for the status information that's included.

The status of the access policy for the Elasticsearch domain. See

@code
OptionStatus
@endcode
for the status information that's included.
"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" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : 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
},
"AddTagsRequest" : {

"c2jName" : "AddTagsRequest",
"customization" : {
  "artificialResultWrapper" : null,
  "skipGeneratingMarshaller" : false,
  "skipGeneratingModelClass" : false,
  "skipGeneratingUnmarshaller" : false,
  "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Container for the parameters to the <code><a>AddTags</a></code> operation. Specify the tags that you want to attach to the 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" : {
  "action" : "AddTags",
  "locationName" : null,
  "requestUri" : "/2015-01-01/tags",
  "verb" : "POST",
  "xmlNameSpaceUri" : null
},
"members" : [
  {
    "beanStyleGetterMethodName" : "getArn",
    "beanStyleSetterMethodName" : "setArn",
    "c2jName" : "ARN",
    "c2jShape" : "ARN",
    "defaultConsumerFluentSetterDocumentation" : "\n<p> Specify the <code>ARN</code> for which you want to add the tags.</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()).\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #arn(String)).\n
@see #arn(String)",
  "deprecated" : false,
  "documentation" : "\n<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
\n\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "\nSpecify the <code>ARN</code> for which you want to add the tags.
\n@\n@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "\nSpecify the <code>ARN</code> for which you want to add the tags.
\n@return Specify the <code>ARN</code> for which you want to add the tags."
"getterModel" : {
  "}
  
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" : "\nSpecify the <code>ARN</code> for which you want to add the tags.
\n@\n@return 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"
Specify the ARN for which you want to add the tags.

This is a convenience that creates an instance of the `List<Tag>` avoiding the need to create one manually. When the Consumer completes, `List<Tag>.Builder` is called immediately and its result is passed to `#tagList(List<Tag>)`.

When the `List<Tag>.Builder#build()` is called immediately and its result is passed to `@link #tagList(List<Tag>)`. A consumer that will call methods on `List<Tag>.Builder` 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`.

```

@get
public List<Tag> tagList() {
    return tagList;
}
```

```

@set
public void tagList(List<Tag> tagList) {
    this.tagList = tagList;
}
```

```

public void addTag(String name, String value) {
    tagList.add(new Tag(name, value));
}
```

```

public void addTags(List<Tag> tags) {
    this.tagList.addAll(tags);
}
```

```

public void removeTag(String name) {
    tagList.removeIf(tag -> tag.name.equals(name));
}
```

```

public void removeAllTags() {
    this.tagList.clear();
}
```

```

public void replaceTag(String name, String value) {
    tagList.removeIf(tag -> tag.name.equals(name));
    tagList.add(new Tag(name, value));
}
```

```

public void replaceAllTags(List<Tag> newTags) {
    this.tagList.clear();
    this.tagList.addAll(newTags);
}
```
"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. 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.

@see #member(Tag)",
  "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.\n\n@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> 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. ",
"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 [ @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.
",
"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",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"setterDocumentation" : "Specify the <code>ARN</code> for which you want to add the tags.
@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" : "Specify the <code>ARN</code> for which you want to add the tags.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"TagList" : {
  "beanStyleGetterMethodName" : "getTagList",
  "beanStyleSetterMethodName" : "setTagList",
  "c2jName" : "TagList",
  "c2jShape" : "TagList",
  "defaultConsumerFluentSetterDocumentation" : "List of <code>Tag</code> that need to be added for the Elasticsearch domain.
This is a convenience that creates an instance of the <code>List&lt;Tag&gt;</code>.Builder avoiding the need to create one manually via <code>List&lt;Tag&gt;#builder()</code>. When the <code>Consumer</code> completes, <code>List&lt;Tag&gt;#builder().build()</code> is called immediately and its result is passed to <code>TagList(List&lt;Tag&gt;));</code>
@param tagList a consumer that will call methods on <code>List&lt;Tag&gt;#builder()</code>
@return Returns a reference to this object so that method calls can be chained together.
@see #tagList(List&lt;Tag&gt;)",
"deprecated" : false,
"documentation" : "List of <code>Tag</code> that need to be added for the Elasticsearch domain.
endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagList",
"fluentSetterDocumentation" : "List of <code>Tag</code> that need to be added for the Elasticsearch domain.
@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.
"fluentSetterMethodName" : "tagList",
"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.

@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,

"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 [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)"
    },
    "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@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" : "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.\n\n@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> 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. ",
"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": 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": 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": null,
  "simpleType": "List<Tag>",
  "variableSetterType": "java.util.Collection<Tag>"
},
"simple": false,
"timestampFormat": null,
"simpleType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>"
},
"xmlNameSpaceUri" : null
}
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",
"defaultConsumerFluentSetterDocumentation" : "\n\n<p> Specify the <code>ARN</code> for which you want to add the tags.\n</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()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #arn(String)}.\n\n@see #arn(String)
\n@deprecated" : false,
"documentation" : "\n\n<p> Specify the <code>ARN</code> for which you want to add the tags.\n</p>\n@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "\n\n<p> Specify the <code>ARN</code> for which you want to add the tags.\n</p>\n@return Specify the <code>ARN</code> for which you want to add the tags.\n@endreturn
\n@see #arn(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" : "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>)}. Returns a reference to this object so that method calls can be chained together.<now>see #tagList(List<Tag>)</now>",
  "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."
"fluentSetterMethodName" : "tagList",
"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.";
"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(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. When the consumer completes, the result is passed to the @link Tag.Builder#build() method on the @link Tag.Builder\n
@see #member(Tag)"

@return Returns a reference to this object so that methods 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.\n
@see #member(Tag)"

@return Returns a reference to this object so that methods can be chained together.

@see #member(Tag)

"getterDocumentation" : "Returns the value of the Member property for this object.\n
@see #member(Tag)

@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" : null,
  "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.

@param tagList List of <code>Tag</code> that need to be added for the Elasticsearch domain.",
"setterMethodName" : "setTagList",
"setterModel" : {
  "variableDeclarationType" : "java.util.ArrayList<Tag>",
  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "variableSetterType" : "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. <p>
  "simpleType": "List<Tag>",
  "variableSetterType": "java.util.Collection<Tag>"
},
"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,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "AddTagsResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "AddTagsResponse",
  "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>&lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; . </p>\"<a>InstanceRole</a> &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" : "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>&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. <br/> <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. <br/> 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>. <br/> When the <code>@link Consumer</code> completes, <code>@link String.Builder#build()</code> is called immediately and its result is passed to <code>@link #limitName(String)</code>. <br/> Returns a reference to this object so that method calls can be chained together. <br/> @param limitName a consumer that will call methods on <code>@link String.Builder</code> <br/> @return Returns a reference to this object so that method calls can be chained together. <br/> <code>@see #limitName(String)</code> <br/> "deprecated" : false,
  "documentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <br/> <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. <br/> <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. <br/> </ul> </p>".
  "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 <br/> <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. <br/> <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. <br/> </ul> <br/> @param limitName Name of Additional Limit is specific to a given InstanceType and for each of it's <br/> <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. <br/> <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. <br/> </ul> @return Returns a reference to this object so that method calls can be chained together. <br/> @see #limitName(String)".
]
you don't need any master nodes to govern them. <ul>

- **getterDocumentation**: "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>InstanceRole</code> etc. <br/> Attributes and their details: <br/> <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code>ESPartitionInstanceType</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>ESPartitionInstanceType</code> upto which you don't need any master nodes to govern them. <br/></ul>";

- **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>InstanceRole</code> etc. <br/> Attributes and their details: <br/> <ul>
MaximumNumberOfDataNodesSupported This attribute will be present in Master node only to specify how much data nodes up to which given <code>ESPartitionInstanceType</code> can support as master node. MaximumNumberOfDataNodesWithoutMasterNode This attribute will be present in Data node only to specify how much data nodes up to which given <code>ESPartitionInstanceType</code> can support as master node. MaximumNumberOfDataNodesSupportedThis attribute will be present in Master node only to specify how much data nodes up to which given <code>ESPartitionInstanceType</code> can support as master node. MaximumNumberOfDataNodesWithoutMasterNode This attribute will be present in Data node only to specify how much data nodes up to which given <code>ESPartitionInstanceType</code> you don't need any master nodes to govern them.

@param limitName Name of Additional Limit is specific to a given InstanceType and for each of it's <code>InstanceRole</code> etc. Attributes and their details:

Attributes and their details:

- **MaximumNumberOfDataNodesSupported**: This attribute will be present in Master node only to specify how much data nodes up to which given <code>ESPartitionInstanceType</code> can support as master node.
- **MaximumNumberOfDataNodesWithoutMasterNode**: This attribute will be present in Data node only to specify how much data nodes up to which you don't need any master nodes to govern them.

```
"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": "Name of Additional Limit is specific to a given InstanceType and for each of it's <code>InstanceRole</code> etc. Attributes and their details:

- **MaximumNumberOfDataNodesSupported**: This attribute will be present in Master node only to specify how much data nodes up to which given <code>ESPartitionInstanceType</code> can support as master node.
- **MaximumNumberOfDataNodesWithoutMasterNode**: This attribute will be present in Data node only to specify how much data nodes up to which you don't need any master nodes to govern them.

```
```
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 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.
"c2jName" : "member",
"c2jShape" : "LimitValue",
"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.
@see #member(String)",

"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" : "<p> Value for given $<code> <a>AdditionalLimit$LimitName</a> </code> .

@param limitValues Value for given $<code> <a>AdditionalLimit$LimitName</a> </code> .</p>

"setterMethodName" : "setLimitValues",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : 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,
  "simple" : true,
  "simpleType" : "String",
  "templateImplType" : "java.util.ArrayList<String>",
  "templateType" : "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
],
"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>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> upto which you don't need any master nodes to govern them. </ul>

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() </code>. When the <code> Consumer </code> completes, <code> String.Builder#build() </code> is called immediately and its result is passed to <code> #limitName(String) </code>.<br/>

Returns a reference to this object so that method calls can be chained together.<br/>

@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> upto which you don't need any master nodes to govern them. </ul>

@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 its <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code> etc. Attributes and their details: Attributes and their details: <br/> <ul>
<li>MaximumNumberOfDataNodesSupported</li>
   This attribute will be present in all 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. <br/> <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>

@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "limitName",
"getterDocumentation" : "<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. Attributes and their details: Attributes and their details: <br/> <ul>
<li>MaximumNumberOfDataNodesSupported</li>
   This attribute will be present in all 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. <br/> <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>

@return 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. Attributes and their details: 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. <br/> <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>

@return 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. Attributes and their details: 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. <br/> <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>

"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> InstanceRole </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> ESPartitionInstanceType </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> ESPartitionInstanceType </code> upto which you don't need any master nodes to govern them. </ul>
@param limitName Name of Additional Limit is specific to a given InstanceType and for each of it's <code> InstanceRole </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> ESPartitionInstanceType </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> ESPartitionInstanceType </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> InstanceRole </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> ESPartitionInstanceType </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> ESPartitionInstanceType </code> upto which you don't need any master nodes to govern them. </ul>
"simpleType" : "String"}
"variableSetterType" : "String",
"xmlNameSpaceUri" : null
},
"LimitValues" : {
"beanStyleGetterMethodName" : "getLimitValues",
"beanStyleSetterMethodName" : "setLimitValues",
"c2jName" : "LimitValues",
"c2jShape" : "LimitValueList",
"defaultConsumerFluentSetterDocumentation" : "<p> Value for given <code>AdditionalLimit$LimitName</code> . </p>
This is a convenience that creates an instance of the <code>List<String>.Builder</code> avoiding the need to create one manually via <code>List<String>#builder()</code>. When the <code>List<String>.Builder</code> completes, <code>List<String>.Builder#build()</code> is called immediately and its result is passed to <code>LimitValues(List<String>)</code>. A parameter <code>limitValues</code> a consumer that will call methods on <code>List<String>.Builder</code>.<code>Builder</code>.

@see #limitValues(List<String>)"

"deprecated" : false,
"documentation" : "<p> Value for given <code>AdditionalLimit$LimitName</code> . </p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Value for given <code>AdditionalLimit$LimitName</code> .

@see #limitValues(List<String>)"

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterDocumentation" : "<p> Value for given <code>AdditionalLimit$LimitName</code> .

@returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName" : "limitValues",
"getterDocumentation" : "<p> Value for given <code>AdditionalLimit$LimitName</code> .

@returns a reference to this object so that method calls can be chained together."

"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",}
"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" : "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>.

"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. Attributes and their details:
<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

Name of Additional Limit is specific to a given InstanceType and for each of it's<br/>
If an Instance has InstanceRole of Master, then the Master node is responsible for<br/>
Maintaining a single list of data nodes that it can support as its maximum number of<br/>
Supported Data Nodes. If an Instance has InstanceRole of Data, then the Data node<br/>
is responsible for maintaining a single list of data nodes that can be governed by<br/>
it's master node without requiring any additional master nodes. Therefore, the<br/>
Virtual Machine will need to be able to determine which InstanceRole it has, as<br/>
well as how many data nodes it can support as a Master node or how many data<br/>
nodes it can be governed by its master node. The names of these limits are specific<br/>
to the instance type and can be determined by using the ES Partition Instance Type<br/>
endpoint to query the instance type and its role. Additionally, the names of these<br/>
limits are also specific to the instance type and can be determined by using the<br/>
ES Partition Instance Type endpoint to query the instance type and its role. Additionally,<br/>
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to query the instance type and its role. Additionally, the names of these limits are also specific<br/>to the instance type and can be determined by using the ES Partition Instance Type endpoint<br/>
to query the instance type and its role. Additionally, the names of these limits are also specific<br/>to the instance type and can be determined by using the ES Partition Instance Type endpoint<br/>
to query the instance type and its role. Additionally, the names of these limits are also specific<br/>to the instance type and can be determined by using the ES Partition Instance Type endpoint<br/>
"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,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "LimitName",
"setterDocumentation" : "<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. <br/>
    <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. <br/>
</p>\n@params limitName 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. <br/>
    <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. <br/>
</ul>

"setterMethodName" : "setLimitName",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "limitName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
The documentation in the image is not clear and seems to be extracted from a technical document. The text appears to discuss attributes and their details related to a specific instance type.

- **MaximumNumberOfDataNodesSupported**: This attribute will be present in Master node only to specify how much data nodes up to which given instance type can support as master node.
- **MaximumNumberOfDataNodesWithoutMasterNode**: This attribute will be present in Data node only to specify how much data nodes of given instance type up to which you don't need any master nodes to govern them.

The text also mentions a method `getLimitValues` and its associated documentation, which is intended to provide a convenience for creating an instance of a list builder. The documentation describes how to use this method to set values for a specific limit.

```java
@java.lang.Override
public @com.amazonaws.SdkClientExceptionThrower withLimitValues(@com.amazonaws.SdkClientExceptionThrower.Builder limitValues)
{
    return visitParameterExpressionWithExceptionThrowerBuilder
    .withLimitValues(limitValues)
    .build();
}
```

This method is designed to be used in a fluent API style, allowing for chaining of method calls to build a list. The documentation explains how to use this method to set values for a specific limit, with examples of how to call it within a fluent API context.
"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.

This is a convenience that creates an instance of the \(@\{\text{link String.Builder}\} \) avoiding the need to create one manually via \(@\{\text{link String#builder()}\} \).\n\nWhen the \(@\{\text{link Consumer}\} \) completes, \(@\{\text{link String.Builder#build()}\} \) is called immediately and its result is passed to \(@\{\text{link #member(String)}\} \).\n
\@param member a consumer that will call methods on \(@\{\text{link String.Builder}\} \).\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.\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.

"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",

"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" : "LimitValues",
"sensitive" : false,
"setterDocumentation" : "<p> Value for given &lt;code&gt; &lt;a&gt;AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; .
&lt;/p&gt;&lt;p&gt;&lt;param&gt; limitValues Value for given &lt;code&gt; &lt;a&gt;AdditionalLimit$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" : "&lt;p&gt; Value for given &lt;code&gt; &lt;a&gt;AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; .
&lt;/p&gt;",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
}],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"simpleName" : "AdditionalLimit",
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "AdditionalLimit",
"variableName" : "additionalLimit",
"variableType" : "AdditionalLimit",
"documentation" : null,
"simpleType" : "AdditionalLimit",
"variableSetterType" : "AdditionalLimit"
},
"wrapper" : false
},
"AdvancedOptionsStatus" : {
"c2jName" : "AdvancedOptionsStatus",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "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)."
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "AdvancedOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain. </p>
This is a convenience that creates an instance of the { @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 Map#options(Map<String,String>)}.

When the {@link Consumer} completes, { @link Map<String,String>#builder()} is called immediately and its result is passed to { @link Map#options(Map<String,String>)}.

@param options a consumer that will call methods on { @link Map<String,String>}.
@return Returns a reference to this object so that method calls can be chained together.
@see #options(Map<String,String>)",
  "deprecated" : false,
  "documentation" : "<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."
  "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>
@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.
@see #options(Map<String,String>)",
  "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.
"n@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,
    "statusIfExists" : false,
    "transportType" : null
  }
}]}
"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.

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\}\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.

@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."
"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",
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"}
"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 #value(String). 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. 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.",
"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": null,
 "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.\n\n@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, the Builder build() method is called immediately and its result is passed to
{@link OptionStatus.Builder}. When the Builder uses options for the specified Elasticsearch domain.

@see #status(OptionStatus)

@deprecated

"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>

endpointDiscoveryId" : false,
"eventType" : 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.

@see #status(OptionStatus)

"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>

 Celtics

endpointDiscoveryId" : false,
"eventType" : 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.

@see #status(OptionStatus)

"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>

 Celtic

endpointDiscoveryId" : false,
"eventType" : 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.

@see #status(OptionStatus)

"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

 Celt

endpointDiscoveryId" : false,
"eventType" : 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.

@see #status(OptionStatus)

"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

 Celt

endpointDiscoveryId" : false,
"eventType" : 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.

@see #status(OptionStatus)

"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

 Celt

endpointDiscoveryId" : false,
"eventType" : 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.

@see #status(OptionStatus)

"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

 Celt

endpointDiscoveryId" : 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 &lt;code&gt;OptionStatus&lt;/code&gt; for advanced options for the specified Elasticsearch domain.</p>&lt;p&gt;\n@param status Specifies the status of &lt;code&gt;OptionStatus&lt;/code&gt; for advanced options for the specified Elasticsearch domain.&lt;/p&gt;",
"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" : "&lt;p&gt; 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"
},
"xmlnsSpaceUri" : null
}
],
"membersAsMap" : {
  "Options" : {
    "beanStyleGetterMethodName" : "getOptions",}
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "AdvancedOptions",
"defaultValueFluentSetterDocumentation" : "<p>Specifies the status of advanced options for the specified Elasticsearch domain.</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 #options(Map<String,String>)}.<p>@param options a consumer that will call methods on</p>@return Returns a reference to this object so that method calls can be chained together.</p>
@see #options(Map<String,String>)",
"deprecated" : false,
"documentation" : "<p>Specifies the status of advanced 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 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>Attempts 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",
  
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n  \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 #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  The new value for the Key property for this object.\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  @return The value of the Key property for this object.\n  
  
  getMethod" : {
    "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
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 `value(String)`. 

```java
@see #value(String)
```

```java
@deprecated
```

```
@return Returns a reference to this object so that method calls can be chained together.
```
"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" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>
},
"marshallingType" : "MAP",
"name" : "Options",
"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" : null,
    "simpleType" : "Map<String,String>",
    "variableSetterType" : "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
},
"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.\</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)}].\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 <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.\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.\</p>!
@\return Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.\n@documentatio
"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.</p>
@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 <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>"
},
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
}
]
,"nonStreamingMembers" : [ { "beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"map" : false,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"marshallType" : "SDK_POJO",
"name" : "Status",
"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
]
"c2jName" : "Options",
"c2jShape" : "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain. </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>)}. Parameter options a consumer that will call methods on { @link Map<String,String>.Builder#options}. Returns a reference to this object so that method calls can be chained together. 

- @deprecated false,
- @documentation "<p> Specifies the status of advanced options for the specified Elasticsearch domain. </p>
- @enumType : "AdvancedOptions",
- @eventHeader : false,
- @eventPayload : false,
- @fluentEnumGetterMethodName" : null,
- @fluentEnumSetterMethodName" : null,
- @fluentGetterMethodName" : "options",
- @fluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain. </p>
- @getterDocumentation" : "<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
- @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.\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 #key(String)\}.\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.\nThe new value for the Key property for this object.\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.\nThe value of the Key property for this object.\n@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",
"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
When the `@link Consumer` completes, `@link String.Builder#build()` is called immediately and its result is passed to `@link #value(String)`.

The `@link String.Builder#value(String)` method sets the value of the `Value` property for this object.

Rationale: Returns a reference to this object so that method calls can be chained together.

```
return
```
"setterDocumentation" : "Sets the value of the Value property for this object.

@templateType : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "Options",
"simple" : false,
"setterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>

@templateType : "java.util.Map<String,String>"
},
"variable" : [
  "variableDeclarationType" : "java.util.Map<String,String>",
  "name" : "value",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
],
"simple" : false,
"timestampFormat" : null,
"variable" : [
  "variableDeclarationType" : "java.util.Map<String,String>",
  "name" : "value",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
],
"simple" : true,
"timestampFormat" : null,
"variable" : [
  "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"
],
"simple" : true,
"timestampFormat" : null,
"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 <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",
  "fluentSetterMethodName": "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.
  
  @see #status(OptionStatus)",
  "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.
  
  @return Returns a reference to this object so that method calls can be chained together.
  
  @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",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>\n\n\n\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 <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>",
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "AdvancedOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,
"documentation" : null,
"simpleType" : "BaseException",
"variableSetterType" : "BaseException"
}
,"wrapper" : false
].
"CancelElasticsearchServiceSoftwareUpdateRequest" : {
"c2jName" : "CancelElasticsearchServiceSoftwareUpdateRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthUnmarshaller" : false,
"staxTargetDepthOffset" : 0
}
,"deprecated" : false,
"documentation" : "Container for the parameters to the<br/><code><a>CancelElasticsearchServiceSoftwareUpdate</a></code> operation. Specifies the name of the<br/>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 {@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 {domainName(String)}
@domainName domainName a consumer that will call methods on
"event" : false,
"eventStream" : 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
],
"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>\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 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",
    "readOnly" : true
  }
}
}
"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.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "The name of the domain that you want to stop the latest service software update on.

@return 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" : "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.

.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
},

"nonStreamingMembers" : [ {
  "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>\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)}.
@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" : "<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",
  "fluentSetterDocumentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>\n@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"fluentSetterMethodName" : "domainName",
  "getterDocumentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>\n@return The name of the domain that you want to stop the latest service software update on.\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"
},
"xmlnsSpaceUri": 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,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>The result of a <code>CancelElasticsearchServiceSoftwareUpdate</code> operation. Contains the status of the update.</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" : "getServiceSoftwareOptions",
    "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
    "c2jName" : "ServiceSoftwareOptions",
    "c2jShape" : "ServiceSoftwareOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>"
  } ]
};
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)\}. The current status of the Elasticsearch service software update.

@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)


"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" : "The current status of the Elasticsearch service software update.",
  "simpleType" : "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 { @link Consumer} completes, { @link ServiceSoftwareOptions.Builder#build()} is called immediately and its result is passed to { @link ServiceSoftwareOptions#consumer} and the service software options 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#consumer",
  "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>
"}
}
The current status of the Elasticsearch service software update.

```java
@param serviceSoftwareOptions The current status of the Elasticsearch service software update.

@return A reference to this object so that method calls can be chained together.

"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"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,
"getterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>

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>

The current status of the Elasticsearch service software update.

"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
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  "variableSetterType" : "ServiceSoftwareOptions"
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"simple" : false,
"timestampFormat" : null,
"getterDocumentation" : "<p>The current status of the Elasticsearch service software update.

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>

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,
"getterDocumentation" : "<p>The current status of the Elasticsearch service software update.

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>

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()].
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" : "<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.
@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",
  "getterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
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"
},
"xmlnsNamespaceUri" : null
] },
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "CancelElasticsearchServiceSoftwareUpdateResponse",
"simpleMethod" : false,
enabled a consumer that will call methods on `{@link Boolean.Builder}`

```
@link Boolean.Builder
@returns 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>",

```
@returns 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>

\n\n```
@returns Specifies the option to enable Cognito for Kibana authentication.
```

"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>"
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."
},
"xmlNameSpaceUri": null,
"getterModel": {
  "getterMethodName": "getEnabled",
  "getterModel": {
    "variableDeclarationType": "Boolean",
    "variableName": "enabled",
    "variableType": "Boolean",
    "documentation": null,
    "simple": true,
    "timestampFormat": null,
    "variable": {
      "variableDeclarationType": "Boolean",
      "variableName": "enabled",
      "variableType": "Boolean",
      "documentation": "Specifies the option to enable Cognito for Kibana authentication."
    },
    "xmlNameSpaceUri": null
  }
},
"beanStyleGetterMethodName": "getUserPoolId",
"beanStyleSetterMethodName": "setUserPoolId",
"c2jName": "UserPoolId",
"c2jShape": "UserPoolId",
"defaultConsumerFluentSetterDocumentation": "Specifies the Cognito user pool ID for Kibana authentication."
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 userPoolId(String)] a consumer that will call methods on [@link String.Builder] so that method calls can be chained together.\n\n@see #userPoolId(String)

"deprecated": false,
"documentation": "Specifies the Cognito user pool ID for Kibana authentication."
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "userPoolId",
"fluentSetterDocumentation": "Specifies the Cognito user pool ID for Kibana authentication."
"getValue": "userPoolId",
"getSetterMethodName": "setUserPoolId",
"getterDocumentation": "Specifies the Cognito user pool ID for Kibana authentication."
"getterModel": {"setterMethodName": "setUserPoolId",
"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."
},
"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": "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>\n@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"
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] is called immediately and its result is passed to [IdentityPoolId(String)].

@param identityPoolId 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 #identityPoolId(String)

@end documentation

"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
{  "beanStyleGetterMethodName" : "getIdentityPoolId",
  "beanStyleSetterMethodName" : "setIdentityPoolId",
  "c2jName" : "IdentityPoolId",
  "c2jShape" : "IdentityPoolId",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
When the [Consumer] completes, [String.Builder] is called immediately and its result is passed to [IdentityPoolId(String)].

@return Returns a reference to this object so that method calls can be chained together.

@see #identityPoolId(String)

@deprecated"
"documentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@end documentation

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"flattenEnumGetterMethodName" : null,
"flattenEnumSetterMethodName" : null,
"flattenGetterMethodName" : "identityPoolId",
"flattenSetterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
When the [Consumer] completes, [String.Builder] is called immediately and its result is passed to [IdentityPoolId(String)].

@return Returns a reference to this object so that method calls can be chained together.

@see #identityPoolId(String)

@deprecated"
"documentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@end documentation

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : 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>
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 #roleArn(String)}. 
@method #roleArn returns a reference to this object so that method calls can be chained together.
@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@param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.@n@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": {
"additionalMarshallingPath": null,
"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>
@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,
"timestampFormat": null,
"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.</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)].

@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>
@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,

"marshallingType": "BOOLEAN",

"name": "Enabled",

"sensitive": false,

"setterDocumentation": "<p>Specifies the option to enable Cognito for Kibana authentication.</p>\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>"
"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}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to the method that will call methods on this instance.

When the method completes, the result is passed to this consumer.

@param identityPoolId 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 #identityPoolId(String)",
"deprecated": false,
"documentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@end 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.
",
"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,
  "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"
},
"xmlnsNameSpaceUri" : 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()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #roleArn(String)}.<p>
@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>
@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" : {
   "additionalMarshallingPath" : null,
   "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.

\texttt{@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,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "roleArn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"UserPoolId" : {
  "beanStyleGetterMethodName" : "getUserPoolId",
  "beanStyleSetterMethodName" : "setUserPoolId",
  "c2jName" : "UserPoolId",
  "c2jShape" : "UserPoolId",
  "defaultConsumerFluentSetterDocumentation" : "\texttt{@p>Specifies the Cognito user pool ID for Kibana authentication.\n\texttt{@n}\nThis is a convenience that creates an instance of the \texttt{@link String.Builder} avoiding the need to create one manually via \texttt{@link String\#builder()}.\n\nWhen the \texttt{@link Consumer} completes, \texttt{@link String.Builder\#build()} is called immediately and its result is passed to \texttt{@link #userPoolId(String)}\n\n@param userPoolId a consumer that will call methods on \texttt{@link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #userPoolId(String)\n\n"deprecated" : false,
"documentation" : "\texttt{@p>Specifies the Cognito user pool ID for Kibana authentication.\n\texttt{@n}}",
"endpointDiscoveryId" : null,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "userPoolId",
"fluentSetterDocumentation" : "\texttt{@p>Specifies the Cognito user pool ID for Kibana authentication.\n\texttt{@n}@return Returns a reference to this object so that method calls can be chained together.\n\n"fluentSetterMethodName" : "userPoolId",

"getterDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@return Specifies the Cognito user pool ID for Kibana authentication.",
"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" : "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"}
"variableType" : "String",
"documentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
],
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [
{
"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",
"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
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallType" : "Boolean",
"method" : "POST",
"operationName" : "Enabled",
"operationType" : "RequestOperation",
"projectags" : null,
"serviceId" : "Kibana",
"serviceType" : "AuthService",
"responseMiddleware" : null,
"responseMiddlewareContent" : null,
"responseMiddlewareParameters" : null,
"responseMiddlewareProperties" : null,
"responseMiddlewareType" : "ResponseMiddleware"
}
"marshallLocationName" : "Enabled",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Enabled",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : 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" : "<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>
@param
userPoolId a consumer that will call methods on \{@link String.Builder\}
@return
Returns a reference to 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 #userPoolId(String)\}.

\@return
Returns a reference to this object.
so that method calls can be chained together.\n@see #userPoolId(String)\n"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.",
"fluentSetterMethodName" : "userPoolId",
"getterDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@return
Specifies the Cognito user pool ID for Kibana authentication.",
"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" : "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": "Specifies the Cognito user pool ID for Kibana authentication.
  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 #identityPoolId(String).param identityPoolId a consumer that will call methods on String.Builder\n@return Returns a reference to this object so that method calls can be chained together.@see #identityPoolId(String)",
  "deprecated": false,
  "documentation": "Specifies the Cognito user pool ID for Kibana authentication."",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "identityPoolId",
  "fluentSetterDocumentation": "Specifies the Cognito user pool ID for Kibana authentication.\n@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" : "IdentityPoolId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "IdentityPoolId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "IdentityPoolId",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "identityPoolId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "identityPoolId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
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 via String#builder(). When the String.Builder completes, String.Builder#build() is called immediately and its result is passed to #roleArn(String). Returns a reference to this object so that method calls can be chained together.

@see #roleArn(String)
"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",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"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
}
,"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "CognitoOptions",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
"variableDeclarationType": "CognitoOptions",
"variableName" : "cognitoOptions",
"variableType" : "CognitoOptions",
"documentation" : null,
"simpleType" : "CognitoOptions",
"variableSetterType" : "CognitoOptions"
},
"wrapper" : false
},
"CognitoOptionsStatus" : {
"c2jName" : "CognitoOptionsStatus",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "Status of the Cognito 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,
"members" : [ {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "CognitoOptions",
"defaultValueConsumerFluentSetterDocumentation" : "Specifies the Cognito options for the specified Elasticsearch domain.
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 #options(CognitoOptions)\}.
\n@see #options(CognitoOptions)",
"deprecated" : false,
"documentation" : "Specifies the Cognito options for the specified Elasticsearch domain."
}"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.

@<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.
</param>

"setterMethodName" : "options",
"setterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.

@return Specifies the Cognito options for the specified Elasticsearch domain.
</param>

"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.

@<param>options Specifies the Cognito options for the specified Elasticsearch domain.

@return Specifies the Cognito options for the specified Elasticsearch domain.
</param>

"setterMethodName" : "setOptions",
"setterModel" : {
"variableDeclarationType" : "CognitoOptions",
"variableName" : "options",
"variableType" : "CognitoOptions",}
"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,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
}

"setterDocumentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>\n@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"
}

"xmlNameSpaceUri": null}
"membersAsMap" : {
  "Options" : {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "CognitoOptions",
    "defaultConsumerFluentSetterDocumentation" : "<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" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
    "gettingModel" : {
      "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
    },
    "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",
    "fluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
    "gettingModel" : {
      "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
    },
    "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",
    "fluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
    "gettingModel" : {
      "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
    },
    "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",
    "fluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
    "gettingModel" : {
      "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" : null,
  "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>
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 a status a consumer that will call methods on { @link OptionStatus.Builder#build() } returns
@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 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>
@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.",
"fluentSetterMethodName" : "status",
"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.",
"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 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",
"documentation" : null
}
"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" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.
\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@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",
"fluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
\n@param options a consumer that will call methods on {@link CognitoOptions.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(CognitoOptions)",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>",
"getterModel" : {

"variableName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
\n@return Specifies the Cognito options for the specified Elasticsearch domain.
"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",
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "options",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},

"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" : null,
  "simpleType" : "CognitoOptions”,
  "variableSetterType" : "CognitoOptions"
},

"simple" : false,
"variableSetterType" : "CognitoOptions"
],
"xmlNameSpaceUri" : 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 builder is called immediately and its result is passed to the @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 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>
@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."
"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.",
"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 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
}],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": ["Options", "Status"],
"shapeName": "CognitoOptionsStatus",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "CognitoOptionsStatus",
  "variableName": "cognitoOptionsStatus",
  "variableType": "CognitoOptionsStatus",
  "documentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>"},
"xmlNameSpaceUri": null
}]}
"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,
  "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": "<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)].
@param sourceVersion 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 #sourceVersion(String)",
      "deprecated": false,
      "documentation": "<p>The current version of Elasticsearch on which a domain is.</p>",
      "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.
@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.
@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.
@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" : "&lt;p&gt;The current version of Elasticsearch on which a domain is.&lt;/p&gt;",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getTargetVersions",
"beanStyleSetterMethodName" : "setTargetVersions",
"c2jName" : "TargetVersions",
"c2jShape" : "ElasticsearchVersionList",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the TargetVersions property for this object.\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 List<
List<String>>}.\n\n@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.\n\n@see #targetVersions(List<String>)",
"getterDocumentation" : "Returns the value of the TargetVersions property for this object.\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@see #targetVersions(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" : "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)

@deprecated
@see #member(String)

@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. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@see #member(String)

@see #member(String)

@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. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@see #member(String)

@see #member(String)

@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. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@see #member(String)

@see #member(String)

@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. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@see #member(String)

@see #member(String)

@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. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@see #member(String)

@see #member(String)

@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. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@see #member(String)

@see #member(String)

@see #member(String)"
  }
", "documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"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",
"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"
"setterDocumentation" : "Sets the value of the TargetVersions property for this object.\n\n@parame

**targetVersions** The new value for the TargetVersions property for this object.\n
"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
},
"membersAsMap" : {
"SourceVersion" : {
"beanStyleGetterMethodName" : "getSourceVersion",
"beanStyleSetterMethodName" : "setSourceVersion",
"c2jName" : "SourceVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "The current version of Elasticsearch on which a 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 #sourceVersion(String)`. 

@see `#sourceVersion(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 list<String>.Builder avoiding the need to create one manually via list<String>#builder(). When the @link Consumer completes, list<String>.Builder#build() is called immediately and its result is passed to #targetVersions(List<String>).

@link #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.

@link #targetVersions(List<String>)

@return Returns a reference to this object so that method calls can be chained together.

@see #targetVersions(List<String>)"
}
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."

@returns 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,
    "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) \}.\n\n@returns member a consumer that will call methods on \{ @link String.Builder \} that method calls can be chained together.\n\n@see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : 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.

@member member

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.

@member member

The new value for the Member property for this object.

@setterMember

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" : "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" : "String",
"variableSetterType" : "String"}
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
}
},
"nonStreamingMembers": [
{
"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": false,
"documentation": "<p>The current version of Elasticsearch on which a domain is.</p>",
"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>
"fluentSetterMethodName": "sourceVersion",
"getterDocumentation": "<p>The current version of Elasticsearch on which a domain is.</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": "SourceVersion",
"queryString": false,
"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.
@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.
<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@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",
"targetVersions" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"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#build()]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@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",
"fluentSetterMethodName" : null,
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@see #member(String)",

"getterDocumentation" : "Returns the value of the Member property for this object.

@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" : 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" : "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" : "java.util.List<String>",
  "variableSetterType" : "java.util.List<String>",
  "variableModel" : null,
  "variableAdditionalMarshallingPath" : null,
  "variableAdditionalUnmarshallingPath" : null,
  "simple" : true,
  "simpleType" : "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" : "java.util.List<String>",
  "variableSetterType" : "java.util.List<String>",
  "variableModel" : null,
  "variableAdditionalMarshallingPath" : null,
  "variableAdditionalUnmarshallingPath" : null,
  "simple" : true,
  "simpleType" : "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" : "java.util.List<String>",
  "variableSetterType" : "java.util.List<String>",
  "variableModel" : null,
  "variableAdditionalMarshallingPath" : null,
  "variableAdditionalUnmarshallingPath" : null,
  "simple" : true,
  "simpleType" : "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" : "java.util.List<String>",
  "variableSetterType" : "java.util.List<String>",
  "variableModel" : null,
  "variableAdditionalMarshallingPath" : null,
  "variableAdditionalUnmarshallingPath" : null,
  "simple" : true,
"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>
",
"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,
    "enumsDiscovery" : null,
    "enumsType" : null,
    "findings" : null,
    "findingsDiscovery" : null,
    "findingsType" : null,
    "notification" : null,
    "notificationDiscovery" : null,
    "notificationType" : null,
    "responseMessage" : null,
    "responseMessageDiscovery" : null,
    "responseMessageType" : null,
    "requestSignerAware" : false,
    "requestSignerClassFqcn" : null,
    "required" : null,
    "shapeName" : "CompatibleVersionsMap",
    "simpleMethod" : false,
    "unmarshaller" : {
      "flattened" : false,
      "resultWrapper" : 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",
"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). 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 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). @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). @return Returns a reference to this object so that method calls can be chained together.</p>",
"endpointDiscoveryId" : false,
"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>

@returns 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",

"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"}
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).
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\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\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" : "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 Amazon Elasticsearch Service Developer Guide.

- "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 Amazon Elasticsearch Service Developer Guide.

This is a convenience that creates an instance of the <code>ElasticsearchClusterConfig.Builder</code> avoiding the need to create one manually via <code>ElasticsearchClusterConfig#builder()</code>. When the <code>@link Consumer</code> completes, <code>ElasticsearchClusterConfig.Builder#build()</code> is called immediately and its result is passed to <code>ElasticsearchClusterConfig</code> a consumer that will call methods on <code>ElasticsearchClusterConfig.Builder</code> a reference to this object so that method calls can be chained together.

- "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,
"fluentMethodName" : "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 Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getterDocumentation" : "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,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"setterDocumentation" : "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.

"setterModel" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "elasticsearchClusterConfig",
"variableType" : "ElasticsearchClusterConfig"}
Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

Options to enable, disable and specify the type and size of EBS storage volumes. This is a convenience that creates an instance of the `EBSOptions.Builder` avoiding the need to create one manually via `EBSOptions#builder()`. When the `Consumer` completes, `EBSOptions.Builder#build()` is called immediately and its result is passed to `EBSOptions.Builder#ebsOptions(EBSOptions)`.

Returns a reference to this object so that method calls can be chained together.

Options to enable, disable and specify the type and size of EBS storage volumes.

Options to enable, disable and specify the type and size of EBS storage volumes.
"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.</p>\n@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
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" : "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 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)

"getterDocumentation" : "IAM access policy as a JSON-formatted string.
- @return 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)"

"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,
trait SnapshotOptions {

   // Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.
   def snapshotOptions: SnapshotOptions = {
      // This is a convenience that creates an instance of the SnapshotOptions.Builder
      // avoiding the need to create one manually via SnapshotOptions#builder().
      // When the Consumer completes, SnapshotOptions.Builder#build() is called immediately and its result is passed to SnapshotOptionsBuilder.
      // returns a reference to this object so that method calls can be chained together.
      // returns a reference to this object so that method calls can be chained together.
      // deprecated
      // documentation
   };
}

"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" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours."
"deprecated" : false,
"documentation" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours."
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"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.\n@param snapshotOptions Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.\n@return 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.\n@return Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.\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.\n@return Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.\n@return Returns a reference to this object so that method calls can be chained together.",
"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. </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)}.

@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>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "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></p>"
Service Domains</i></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 VPC Endpoints for Amazon Elasticsearch Service Domains</i></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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>

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 VPC Endpoints for Amazon Elasticsearch Service Domains</i>
Creating a VPC endpoint is described in [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) 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](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) in VPC Endpoints for Amazon Elasticsearch Service Domains.

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.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(CognitoOptions)`.

Returns a reference to this object so that method calls can be chained together.

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).

Deprecated

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).
"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).\n\n@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).\n@return Returns a reference to this object so that method calls can be chained together."

"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).\n\n@return 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).",

"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" : "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).
\n@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."
Amazon Cognito Authentication for Kibana</a>.

@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>.

Setter Method Name: setCognitoOptions

Cognito Options

Amazon Cognito Authentication for Kibana

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 EncryptionAtRestOptions.Builder#build() } is called immediately and its result is passed to { @link EncryptionAtRestOptions(EncryptionAtRestOptions) }. Returns a reference to this object so that method calls can be chained together.

Specifies the Encryption At Rest Options.

Specifies the Encryption At Rest Options.

Deprecated=false, false,
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>

@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",
"simple" : 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",
"defaultValue": "<p>Specifies the NodeToNodeEncryptionOptions.
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 to this object so that method calls can be chained together.
@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.
@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.
@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",
"simple" : false,
"setterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.

@param nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.

</p>\n@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>\n",  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri" : 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
<br/>

**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. When the Consumer completes, the Map is constructed and passed to [Map<String,String>.Builder#advancedOptions(Map<String,String>)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**endpointDiscoveryId**

A value used by the endpoint discovery service to identify this cluster. This value is unique within the VPC and must be unique for all clusters that can be reached from a particular endpoint. Must be `false` when configuring access to individual sub-resources. By default, the value is `false` or `null`. 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. When the Consumer completes, the endpoint discovery ID is constructed and passed to [Map<String,String>.Builder#endpointDiscoveryId(String)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**eventHeader**

A boolean value indicating whether the request header should contain an event identifier. Must be `false` when configuring access to individual sub-resources. By default, the value is `false` or `null`. 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. When the Consumer completes, the event header is constructed and passed to [Map<String,String>.Builder#eventHeader(boolean)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**eventPayload**

A boolean value indicating whether the request body should contain an event payload. Must be `false` when configuring access to individual sub-resources. By default, the value is `false` or `null`. 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. When the Consumer completes, the event payload is constructed and passed to [Map<String,String>.Builder#eventPayload(boolean)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**fluentEnumGetterMethodName**

The name of the method that returns a collection of enum values. Must be `null` when configuring access to individual sub-resources. By default, the value is `null`. 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. When the Consumer completes, the fluent enum getter method is constructed and passed to [Map<String,String>.Builder#fluentEnumGetterMethodName(String)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**fluentEnumSetterMethodName**

The name of the method that sets a collection of enum values. Must be `null` when configuring access to individual sub-resources. By default, the value is `null`. 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. When the Consumer completes, the fluent enum setter method is constructed and passed to [Map<String,String>.Builder#fluentEnumSetterMethodName(String)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**fluentGetterMethodName**

The name of the method that returns the collection of parameters. Must be `advancedOptions` when configuring access to individual sub-resources. By default, the value is `advancedOptions`. 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. When the Consumer completes, the fluent getter method is constructed and passed to [Map<String,String>.Builder#fluentGetterMethodName(String)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**fluentSetterMethodName**

The name of the method that sets the collection of parameters. Must be `advancedOptions` when configuring access to individual sub-resources. By default, the value is `advancedOptions`. 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. When the Consumer completes, the fluent setter method is constructed and passed to [Map<String,String>.Builder#fluentSetterMethodName(String)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**getterDocumentation**

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException. Must be `true` when configuring access to individual sub-resources. By default, the value is `false` or `null`. 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. When the Consumer completes, the getter documentation is constructed and passed to [Map<String,String>.Builder#getterDocumentation(String)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**getterModel**

A class name that is used to represent the collection of parameters. Must be `java.util.Map<String,String>` when configuring access to individual sub-resources. By default, the value is `null`. 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. When the Consumer completes, the getter model is constructed and passed to [Map<String,String>.Builder#getterModel(Class)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**returnType**

A reference to the return type of the method. Must be `java.util.Map<String,String>` when configuring access to individual sub-resources. By default, the value is `null`. 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. When the Consumer completes, the return type is constructed and passed to [Map<String,String>.Builder#returnType(Class)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).<p>

**http**

A boolean value indicating whether the request body should contain an event payload. Must be `false` when configuring access to individual sub-resources. By default, the value is `false` or `null`. 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. When the Consumer completes, the HTTP option is constructed and passed to [Map<String,String>.Builder#http(boolean)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).
"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 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.",
    "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 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.
\n@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.
\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"}
"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)}. 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.\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" : "",
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlnsNamespaceUri" : 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 \n<code>false</code> when configuring access to individual sub-resources. By default, the value is

@deprecation
@method
@since
@category
@note
@returns
@description

```java
public LogPublishingOptions logPublishingOptionsAsStrings(Map<String, LogPublishingOption> logPublishingOptions)
```

*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>.*


```java
public LogPublishingOptions logPublishingOptionsWithStrings(Map<String, LogPublishingOption> logPublishingOptions)
```

*Option to allow references to indices in an HTTP request body. Must be <code>true</code>.*


This is a convenience that creates an instance of the <code>LogPublishingOptions</code> class avoiding the need to create one manually. When the method completes, its result is passed to the consumer that will call methods on <code>LogPublishingOptions</code>.

```java
public LogPublishingOptions logPublishingOptionsWithStrings(Map<String, LogPublishingOption> logPublishingOptions)
```

*Option to allow references to indices in an HTTP request body. Must be <code>true</code>.*


This is a convenience that creates an instance of the <code>Map</code> containing options to publish a given type of Elasticsearch log avoiding the need to create one manually via <code>Map#builder()</code>. When the consumer completes, <code>Map#builder().build()</code> is called immediately and its result is passed to the consumer that will call methods on <code>LogPublishingOptions</code>.

```java
public LogPublishingOptions logPublishingOptionsAsStrings(Map<String, LogPublishingOption> logPublishingOptions)
```

*Option to allow references to indices in an HTTP request body. Must be <code>true</code>.*


This is a convenience that creates an instance of the <code>Map</code> containing options to publish a given type of Elasticsearch log.
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetMethodName" : "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.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
<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" : {
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetMethod_name" : "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.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
Attemps to modify the collection returned by this method will result in an UnsupportedOperationException.
@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,
"additional UnmarshallingPath" : 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" : {
"endpointDiscoveryId" : false,
"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",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThe 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.\n\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@return The value of the Key property for this object.\n\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.

@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 LogPublishingOption.Builder#value}. Returns a reference to this object so that method calls can be chained together.

@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.
@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": "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 A reference to this object so that method calls can be chained together.",
"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 <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log."><p>\n</p>
"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" : "",
  "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] that will build a String\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>\n"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",
      "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">Configuration Advanced Options</a> for more information.</p>
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 [AdvancedOptions].

Returns a reference to this object so that method calls can be chained
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.

```java
@see #advancedOptions(Map<String,String>)
```

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.

```java
public void advancedOptions(final Map<String, String> 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 [Configuration Advanced Options](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options) for more information.

```java
public Map<String, String> advancedOptions()
```

```
http: { 
    "additionalMarshallingPath": null, 
    "additionalUnmarshallingPath": null, 
    "flattened": false, 
    "greedy": false, 
    "header": false, 
    "isPayload": false, 
    "isStreaming": false, 
    "location": null, 
    "returnType": "java.util.Map<String,String>", 
    "documentation": 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\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\nThe 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.",
    "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",
"simple" : true,
"timestampFormat" : null,
"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"
},
"xmlnsSpaceUri" : 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 [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 [value(String)].

@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.

Sets the value of the Value property for this object.

When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [value(String)].

@see #value(String)",
"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.",
"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-createupdatedomains骏configure-advanced-options\" target="\_blank">Configuration Advanced Options</a> for more information.</p>\n\n@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-createupdatedomains骏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" : null,
  "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-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>"
},
"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()}. When the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to {@link CognitoOptions.Builder#consumer()}.<p>@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.<p>@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,
  "eventHeader" : 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>. @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" : "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 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
},
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"additionalUnmarshallingPath" : null,
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"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" : "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 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>.,"}
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" : {
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  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "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).",
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null,

"DomainName" : {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "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).

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)].

@deprecated

@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 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).",
  "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,
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  "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).\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.".}
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).

```
@param domainName

    "setterMethodName" : "setDomainName",
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        "variableName" : "domainName",
        "variableType" : "String",
        "documentation" : null,
        "simpleType" : "String",
        "variableSetterType" : "String"
    },
    "simple" : true,
    "timestampFormat" : null,
    "variable" : {
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        "variableName" : "domainName",
        "variableType" : "String",
        "documentation" : null,
        "simpleType" : "String",
        "variableSetterType" : "String"
    },
    "xmlNameSpaceUri" : null
},
"EBSOptions" : {
    "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)}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #ebsOptions(EBSOptions)"
    "deprecated" : false,
    "documentation" : "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. </p>
@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. </p>
@return Options to enable, disable and specify the type and size of EBS storage volumes."
"getterModel" : {
   "returnType" : "EBSOptions",
   "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" : "EBSOptions",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "EBSOptions",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallType" : "SDK_POJO",
"name" : "EBSOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>
@param ebsOptions Options to enable, disable and specify the type and size of EBS storage volumes."
"setterMethodName" : "setEbsOptions",
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   "variableName" : "ebsOptions",
   "variableType" : "EBSOptions",
   "documentation" : null,
   "simpleType" : "EBSOptions",
   "variableSetterType" : "EBSOptions"
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"simple" : false,
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"variable" : {
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  "variableType" : "EBSOptions",
  "documentation" : "Options to enable, disable and specify the type and size of EBS storage volumes.
  </p>
},
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchClusterConfig" : {
  "beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
  "beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
  "c2jName" : "ElasticsearchClusterConfig",
  "c2jShape" : "ElasticsearchClusterConfig",
  "defaultConsumerFluentSetterDocumentation" : "Configuration options for an Elasticsearch domain. 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 Consumer completes, ElasticsearchClusterConfig.Builder#build() is called immediately and its result is passed to ElasticsearchClusterConfig#elasticsearchClusterConfig(). Understand that this method calls on ElasticsearchClusterConfig.Builder, returning 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.
  </p>
},
"endpointDiscoveryId" : false,
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"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterDocumentation" : "Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.
  </p>
},
"param" : ElasticsearchClusterConfig.Builder#build() returns a reference to this object so that method calls can be chained together.
@see ElasticsearchClusterConfig(ElasticsearchClusterConfig)
  },
  "getterMethodName" : "elasticsearchClusterConfig",
  "getterDocumentation" : "Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.
  </p>
},
"param" : ElasticsearchClusterConfig.Builder, Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.
  </p>
},
  "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"
"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 \n  href=\"http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target=\"_blank\"\n  \n  Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n  \n  This is a convenience that creates an instance of the \{@link String.Builder\} avoiding\n  the need to create one manually via \{@link String.Builder\}().\n  \n  When the \{@link Consumer\} completes, \{@link String.Builder\}.build() is called immediately and its result is passed to \{@link \#elasticsearchVersion(String)\}.\n  @param elasticsearchVersion 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
"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 \n  href=\"http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target=\"_blank\"\n  Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n
"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 \n  href=\"http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target=\"_blank\"\n  Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n
"getterDocumentation": "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see \n  href=\"http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target=\"_blank\"\n  Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n
"documentation": "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see \n  href=\"http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target=\"_blank\"\n  Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n
"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 \n  href=\"http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target=\"_blank\"\n  Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n
"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 \n  href=\"http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target=\"_blank\"\n  Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n
"getterDocumentation": "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see \n  href=\"http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target=\"_blank\"\n  Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n
"endpointDiscoveryId": false,
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"eventHeader": false,
"eventPayload": false,
"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" : "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 &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#.es-createdomains" target="_blank"&gt;Creating Elasticsearch Domains&lt;/a&gt; in the &lt;i&gt;Amazon Elasticsearch Service Developer Guide&lt;/i&gt;.&lt;/p&gt;

@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain eg. "1.5" or "2.3". For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#.es-createdomains" target="_blank"&gt;Creating Elasticsearch Domains&lt;/a&gt; in the &lt;i&gt;Amazon Elasticsearch Service Developer Guide&lt;/i&gt;.&lt;/p&gt;

"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 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(EncryptionAtRestOptions)}. @param encryptionAtRestOptions 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 #encryptionAtRestOptions(EncryptionAtRestOptions)",
  "deprecated" : false,
  "documentation" : "Specifies the Encryption At Rest Options.",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "encryptionAtRestOptions",
  "fluentSetterDocumentation" : "Specifies the Encryption At Rest Options.
@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" : "Specifies the Encryption At Rest Options.",
  "getterModel" : {
    "returnType" : "EncryptionAtRestOptions",
    "documentation" : null
  },
  "http" : {
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    "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" : "<p>Specifies the Encryption At Rest Options.</p>",
   "simpleType" : "EncryptionAtRestOptions",
   "variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
},
"LogPublishingOptions" : {
   "beanStyleGetterMethodName" : "getLogPublishingOptionsAsString","
"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, its result is passed to {@link Map<String,LogPublishingOption>AsStrings{Map<String,LogPublishingOption>}).

When the
{@link Map<String,LogPublishingOption>.Builder} completes, {
<code>Map<String,LogPublishingOption>.Builder#build()</code> is called immediately
and its result is passed to {
<code>Map<String,LogPublishingOption>AsStrings{Map<String,LogPublishingOption>}</code>.

@return 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.</p>
<code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch
log.</p>

@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>)",
"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.

@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",
    "defaultValueSetterDocumentation" : "Sets the value of the Key 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() \}. When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #keyAs(String) \}.\n\n@see LogType\n\n@param key a consumer that will call methods on \{ @link String.Builder \}\n\n@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\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@returns The value of the Key property for this object.\n\n@see LogType",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.\n\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@returns The value of the Key property for this object.\n\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@ 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.
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": "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
},
"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()}. When the { @link Consumer} completes, { @link NodeToNodeEncryptionOptions#builder()} is called immediately and its result is passed to { @link NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)}. 
@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>",
  "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.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
  "getterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.\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",
"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"
"defaultConsumerFluentSetterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 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)}.<br/>
@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,
  "fluentGetMethod" : "snapshotOptions",
  "fluentSetterDocumentation" : "<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.
@return 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>
@return 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. </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"
},
"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. </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 <a href="http://docs.aws.amazon.com/elasticsearch-
service/latest/developer-guide/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 {@link VPCOptions.Builder} avoiding the need to create one manually via {@link VPCOptions#builder()}. When the Consumer completes, the result is passed to  

```java
\n@returns Returns a reference to this object so that method calls can be chained together.
```

"deprecated" : false,
"documentation" : "\nOptions to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developer-guide/es-vpc.html#es-creating-vpc\" target="_blank"">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

\n"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterMethodName" : "vpcOptions",

"getterDocumentation" : "\nOptions to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developer-guide/es-vpc.html#es-creating-vpc\" target="_blank"">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

\n"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>

@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" : "&lt;p&gt;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&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;&lt;/p&gt;\n
@param vpcOptions 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&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;&lt;/p&gt;\n
"simpleType" : "VPCOptions",
"variableSetterType" : "VPCOptions"
},
"xmlNameSpaceUri" : null}
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). 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 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)."

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)."

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>\\n\n\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).",
"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>.</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 ElasticsearchVersion} is called immediately and its result is passed to {@link ElasticsearchVersion(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" : "<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>"
@endDocumentation
"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>",
"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>
@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>.

@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>"
@endDocumentation
"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>",
"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>
@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>.

@see {#elasticsearchVersion(String)}
String of format X.Y to specify version for the Elasticsearch domain eg. "1.5.5" or "2.3.7". For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the &lt;i&gt;Amazon Elasticsearch Service Developer Guide&lt;/i&gt;.
"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 &lt;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().\nWhen the {<link Consumer} completes, {<link ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to {<link ElasticsearchClusterConfig(ElasticsearchClusterConfig)} \n@\nreturn Returns a reference to this object so that method calls can be chained together.\n@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",
"fluentSetterDocumentation" : "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>
@\nreturn Returns a reference to this object so that method calls can be chained together."
",
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getterDocumentation" : "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>
@\nreturn 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,
Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. The 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.

Parameters:
- elasticsearchClusterConfig
  - Type: ElasticsearchClusterConfig
  - Documentation: Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.
"defaultConsumerFluentSetterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. When the Consumer completes, it is passed to #ebsOptions(EBSOptions).\n\n@see #ebsOptions(EBSOptions)\n\n\n\n"}

"getterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes.\n\n\n\n"}

"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,
"setterDocumentation" : "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" : "Options to enable, disable and specify the type and size of EBS storage volumes.

@endparam

"simpleType" : "EBSOptions",

"variableSetterType" : "EBSOptions"
},

"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, {@link String.Builder#build()} is called immediately and its result is passed to {@link #accessPolicies(String)}. The parameter accessPolicies 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 #accessPolicies(String)"

"deprecated" : false,

"documentation" : "IAM access policy as a JSON-formatted string.

@endparam

"endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.

@returns
@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.

@returns
@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.

@returns
@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"
},
"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,
"fluentGetterMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>
@return 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>
@return 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. </p>\n@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"
},
"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. </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>.<br>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)}.<br>@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.<br>@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>.<br>
@end documentation",
  "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>.<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
@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>.<br>
@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>.<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
@see #vpcOptions(VPCOptions)",
  "getterModel" : {
    "returnType" : "VPCOptions",
    "documentation" : null
  }
}
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-creating-vpc.html) in [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-creating-vpc.html).

```java
public void setVpcOptions(VPCOptions vpcOptions) {
    this.vpcOptions = 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>",
"simpleType" : "VPCOptions",
"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 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().

When the [ @link Consumer] completes, { @link CognitoOptions.Builder.Builder().build()} is called immediately and its result is passed to { @link
#cognitoOptions(CognitoOptions)}.\n\n@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,
"eventHeader" : 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>

@return Returns a reference to this object so that method calls can be chained
together."
@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,
"eventHeader" : 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>

@return Returns a reference to this object so that method calls can be chained
together."
@see #cognitoOptions(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": "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",

"setterDocumentation": 
  "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>.
  @param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication.
",

"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
},
  "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
  "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
  "c2jName" : "EncryptionAtRestOptions",
  "c2jShape" : "EncryptionAtRestOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Encryption At Rest Options. This is a convenience that creates an instance of the EncryptionAtRestOptions 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 a consumer that will call methods on EncryptionAtRestOptions.Builder#return. 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,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "encryptionAtRestOptions",
  "fluentSetterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>\n@param encryptionAtRestOptions Specifies the Encryption At Rest Options.\n@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>\n@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" : "Specifies the Encryption At Rest Options.",
"setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : "Specifies the Encryption At Rest Options.",
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : "Specifies the Encryption At Rest Options.",
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
}
, {
  "beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
  "beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
  "c2jName" : "NodeToNodeEncryptionOptions",
  "c2jShape" : "NodeToNodeEncryptionOptions",
  "defaultConsumerFluentSetterDocumentation" : "Specifies the NodeToNodeEncryptionOptions.",
  "setterDocumentation" : "This is a convenience that creates an instance of the 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 to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)"
,
"deprecated" : false,
"documentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>",
"endpointDiscoveryId" : false,
"eventType" : 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.
",
"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"
},
"xmlNameSpaceUri": null
}
"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>.</p> 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.</p>
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "advancedOptions",
"getterDocumentation" : "<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>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@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 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#key().
@see #key(String)
@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": "key",
"fluentSetterDocumentation": "Sets the value of the Key property for this object.
@see #key(String)
@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,
Open Source Used in MSX SD-WAN Service Pack 4.0.0

```
"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
```
When the `@link Consumer` completes, `@link String.Builder.Builder#build()` is called immediately and its result is passed to `@link String#builder()`.

```
return
```

A reference to this object so that method calls can be chained together.

```
return
```

The new value for the Value property for this object.

```
return
```

The value of the Value property for this object.

```
return
```

The value of the Value property for this object.

```
return
```

The value of the Value property for this object.
"setterDocumentation": "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.",

"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>Map<String,String>.Builder</code> avoiding the need to create one manually via <code>Map<String,String>.Builder#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>LogPublishingOptions#logPublishingOptionsAsStrings(Map<String,String>)</code>. Returns a reference to this object so that method calls can be chained together. 

@see #logPublishingOptionsWithStrings(Map<String,String>)",
  "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. Returns a reference to this object so that method calls can be chained together.

@deprecated
@see #logPublishingOptionsWithStrings(Map<String,String>)",
  "getDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException. Returns a reference to this object so that method calls can be chained together.

@deprecated
@see #logPublishingOptionsWithStrings(Map<String,String>)",
  "setDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException. Returns a reference to this object so that method calls can be chained together.

@deprecated
@see #logPublishingOptionsWithStrings(Map<String,String>)";
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",
    "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@see #key(String)",
    "deprecated" : false,
    "documentation" : null,
    "endpointDiscoveryId" : false,
    "enumType" : "LogType",
    "eventHeader" : false,
    "eventPayload" : false,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "LogPublishingOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "LogPublishingOptions",
    "uri" : 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.
<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"}
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.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see LogPublishingOption\n\nSets the value of the Value property for this object. The new value for the Value property for this object.\n@return Returns the value of the Value property for this object.\n\n\n
"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.\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
"marshallingType": "MAP",
"name": "LogPublishingOptions",
"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
}
,"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "DomainName" ],
"shapeName": "CreateElasticsearchDomainRequest",
"simpleMethod": false,
"unmarshallaller": 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" : "The result of a &lt;code&gt;CreateElasticsearchDomain&lt;/code&gt; operation. Contains the status of the newly created Elasticsearch domain.&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,
  "marshallers" : [
    {
      "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 &lt;link ElasticsearchDomainStatus.Builder&gt; avoiding the need to create one manually via &lt;link ElasticsearchDomainStatus.Builder#builder()&gt;. When the &lt;link Consumer&gt; completes, &lt;link ElasticsearchDomainStatus.Builder#build()&gt; is called immediately and its result is passed to &lt;link #domainStatus(ElasticsearchDomainStatus))&gt;&lt;param domainStatus a consumer that will call methods on &lt;link ElasticsearchDomainStatus.Builder#build()&gt;&lt;return Returns a reference to this object so that method calls can be chained together.&lt;param see #domainStatus(ElasticsearchDomainStatus)";
      "deprecated" : false,
      "documentation" : "The status of the newly created Elasticsearch domain. &lt;/p&gt;",
      "endpointDiscoveryId" : false,
      "enumType" : null,
      "eventHeader" : false,
      "eventPayload" : false,
      "fluentEnumGetterMethodName" : null,
      "fluentEnumSetterMethodName" : null,
      "fluentGetterMethodName" : "domainStatus",
      "fluentSetterDocumentation" : "The status of the newly created Elasticsearch domain. &lt;/p&gt;&lt;param domainStatus The status of the newly created Elasticsearch domain.&lt;param 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>\n@return The status
of the newly created Elasticsearch domain.",
"getterModel" : {
"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
},
"http" : {
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"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
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"marshallLocationName" : "DomainStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainStatus",
"uri" : false
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"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>\n@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" : {

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"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "domainStatus",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : "The status of the newly created Elasticsearch domain. \</p>",
"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
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"beanStyleGetterMethodName" : "getDomainStatus",
"beanStyleSetterMethodName" : "setDomainStatus",
"c2jName" : "DomainStatus",
"c2jShape" : "ElasticsearchDomainStatus",
"defaultConsumerFluentSetterDocumentation" : "The status of the newly created Elasticsearch domain. \</p>\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\}.\n\n@see #domainStatus(ElasticsearchDomainStatus)",
"deprecated" : false,
"documentation" : "The status of the newly created Elasticsearch domain. \</p>",
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"eventHeader" : false,
"eventPayload" : false,
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"fluentSetterDocumentation" : "The status of the newly created Elasticsearch domain. \</p>\n\n@see #domainStatus(ElasticsearchDomainStatus)",
"deprecated" : false,
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"eventHeader" : false,
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"fluentSetterDocumentation" : "The status of the newly created Elasticsearch domain. \</p>\n\n@see #domainStatus(ElasticsearchDomainStatus)",
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"documentation" : "The status of the newly created Elasticsearch domain. \</p>",
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"deprecated" : false,
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"documentation" : "The status of the newly created Elasticsearch domain. \</p>\n\n@see #domainStatus(ElasticsearchDomainStatus)"
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"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.",
"setterMethodName" : "setDomainStatus",
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  "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 newly created Elasticsearch domain. </p>",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
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"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainStatus",
  "beanStyleSetterMethodName" : "setDomainStatus",
  "c2jName" : "DomainStatus",
  "c2jShape" : "ElasticsearchDomainStatus",
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
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  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"isStreaming" : false,
The status of the newly created Elasticsearch domain. 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 `domainStatus(ElasticsearchDomainStatus)`.

```java
@Deprecated
@Returns A reference to this object so that method calls can be chained together.
@see #domainStatus(ElasticsearchDomainStatus)
```

```
public void domainStatus(ElasticsearchDomainStatus domainStatus)
```

- `domainStatus`: The status of the newly created Elasticsearch domain.
- Returns a reference to this object so that method calls can be chained together.

```
@Get
@Returns The status of the newly created Elasticsearch domain.
```

```
public ElasticsearchDomainStatus domainStatus()
```

- Return Type: `ElasticsearchDomainStatus`
- Documentation: null

```
@Http
@Header
@IsPayload
@QueryParam
@StatusCode
@Uri
```

```
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" : "The status of the newly created Elasticsearch domain.
@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" : {
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  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "The status of the newly created Elasticsearch domain."
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "CreateElasticsearchDomainResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
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"variable" : {
  "variableDeclarationType" : "CreateElasticsearchDomainResponse",
  "variableName" : "createElasticsearchDomainResponse",
  "variableType" : "CreateElasticsearchDomainResponse",
  "documentation" : null,
  "simpleType" : "CreateElasticsearchDomainResponse",
  "variableSetterType" : "CreateElasticsearchDomainResponse"
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"wrapper" : false
},
"DeleteElasticsearchDomainRequest" : {
  "c2jName" : "DeleteElasticsearchDomainRequest"
"customization": {
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    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "<p>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": {
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    "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.
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>DomainName(String)</a>. @param
domainName a consumer that will call methods on <a>String.Builder</a>.
@see DomainName(String)
</p> ",
    "deprecated": false,
    "documentation": "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
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    "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 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 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,
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"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" : {
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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" : "<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()}. When the {@link Consumer} completes, the following code is executed:

```java
String.Builder builder = String#builder()
... // add domainName to builder...
String domainName = builder.build();
```

When the {@link Consumer} completes, the result of the above code is passed to the fluent setter method of the current object.

```
object.domainName(String domainName)
```

@see #domainName(String)

"deprecated" : false,
"documentation" : "]</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>
@see #domainName(String)"

"getterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@see #domainName(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": "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": {
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  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
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  "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
},
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
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    "getterModel": {
      "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"
    },
    "setterMethodName": "setDomainName",
    "setterModel": {
      "variableDeclarationType": "String",
      "variableName": "domainName",
      "variableType": "String",
      "documentation": null,
      "simpleType": "String",
      "variableSetterType": "String"
    },
    "xmlNameSpaceUri": null
  }
]
"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()}. When the {@link Consumer} completes, when String.Builder#build() is called immediately and its result is passed to the parameter of the method that will call methods on String.Builder. Method object so that method call 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",
"fluentSetterMethodName" : "domainName",
"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.
@see #domainName(String)",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
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  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
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  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"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.\n",
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"setterModel": {
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  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
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  "variableName": "domainName",
  "variableType": "String",
  "documentation": "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
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"xmlNameSpaceUri": null
},
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "DomainName" ],
"shapeName": "DeleteElasticsearchDomainRequest",
"simpleMethod": false,
"unmarshaller": null,
"variable": {
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  "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" : "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.",
"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" : "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() }. 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 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() }. 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)",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainStatus",
  "fluentSetterDocumentation" : "The status of the Elasticsearch domain being deleted.
@return The status of the Elasticsearch domain being deleted.
@see #domainStatus(ElasticsearchDomainStatus)",
  "fluentSetterMethodName" : "domainStatus",
  "getterDocumentation" : "The status of the Elasticsearch domain being deleted.
@return The status of the Elasticsearch domain being deleted.
@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,
 "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 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" : null,
 "simpleType" : "ElasticsearchDomainStatus",
 "variableSetterType" : "ElasticsearchDomainStatus"}
"variableSetterType" : "ElasticsearchDomainStatus",
"xmlnsNameSpaceUri" : null
}],
"membersAsMap" : {
"DomainStatus" : {
"beanStyleGetterMethodName" : "getDomainStatus",
"beanStyleSetterMethodName" : "setDomainStatus",
"c2jName" : "DomainStatus",
"c2jShape" : "ElasticsearchDomainStatus",
"defaultConsumerFluentSetterDocumentation" : "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()}. When the {@link Consumer} completes, {@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {@link domainStatus(ElasticsearchDomainStatus)}.

@see #domainStatus(ElasticsearchDomainStatus)",
"deprecated" : false,
"documentation" : "The status of the Elasticsearch domain being deleted.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "The status of the Elasticsearch domain being deleted.
@see #domainStatus(ElasticsearchDomainStatus)",
"getterDocumentation" : "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>
"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.</p>
This is a convenience that creates an instance of the [ElasticsearchDomainStatus.Builder] avoiding the need to create one manually via [ElasticsearchDomainStatus#builder()].

When the [ElasticsearchDomainStatus.Builder] completes, [ElasticsearchDomainStatus.Builder#build()] is called immediately and its result is passed to [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" : "&lt;p&gt;The status of the Elasticsearch domain being deleted.&lt;/p&gt;",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "domainStatus",
    "fluentSetterDocumention" : "&lt;p&gt;The status of the Elasticsearch domain being deleted.&lt;/p&gt;\n@param domainStatus The status of the Elasticsearch domain being deleted.\n@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "domainStatus",
    "getterDocumentation" : "&lt;p&gt;The status of the Elasticsearch domain being deleted.&lt;/p&gt;\n@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" : "&lt;p&gt;The status of the Elasticsearch domain being deleted.&lt;/p&gt;\n@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" : null,
  "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,
"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,
"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,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"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"
"DescribeElasticsearchDomainConfigRequest" : {
"c2jName" : "DescribeElasticsearchDomainConfigRequest",
"customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "Container for the parameters to the DescribeElasticsearchDomainConfig 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 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 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.

@deprecated" : false,
"documentation" : "The Elasticsearch domain that you want to get information about.

@Deprecated" : false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>\n@param domainName The Elasticsearch domain that you want to get information about.\n@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>\n@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>\n@param domainName The Elasticsearch domain that you want to get information about.\n@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"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch domain that you want to get information about.</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 caller can call methods on the instance of String.Builder that is passed to the method.

When the method completes, String.Builder#build() is called immediately and its result is passed to the method. The result is then passed to the method.

@param domainName 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.
@see #domainName(String)",
"deprecated" : false,
"documentation" : "<p>The Elasticsearch domain that you want to get information about.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
When the Consumer completes, the method will be called with the String.Builder instance that was passed to the method.

When the method completes, String.Builder#build() is called immediately and its result is passed to the method.

@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.
@see #domainName(String)",
"getterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
When the Consumer completes, the method will be called with the String.Builder instance that was passed to the method.

When the method completes, String.Builder#build() is called immediately and its result is passed to the method.

@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.
@see #domainName(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" : "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>",
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "\n<p>The Elasticsearch domain that you want to get information about.</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 #domainName(String)}.

@see #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.
  
  "deprecated" : false,
  "documentation" : "\n<p>The Elasticsearch domain that you want to get information about.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "\n<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" : "\n<p>The Elasticsearch domain that you want to get information about.</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
  },
  "<p>The Elasticsearch domain that you want to get information about.</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#builder()}.\n
When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.\n
@see #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.
  
  "deprecated" : false,
  "documentation" : "\n<p>The Elasticsearch domain that you want to get information about.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "\n<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" : "\n<p>The Elasticsearch domain that you want to get information about.</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",
"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>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "DomainName" ],
"shapeName": "DescribeElasticsearchDomainConfigRequest",
"simpleMethod": false,
"unmarshaller": null,
"variable": {
  "variableDeclarationType": "DescribeElasticsearchDomainConfigRequest",
  "variableName": "describeElasticsearchDomainConfigRequest",
  "variableType": "DescribeElasticsearchDomainConfigRequest",
  "documentation": null,
  "simpleType": "DescribeElasticsearchDomainConfigRequest",
  "variableSetterType": "DescribeElasticsearchDomainConfigRequest"
},
"wrapper": false
"c2jName" : "DescribeElasticsearchDomainConfigResponse",
"customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "The result of a DescribeElasticsearchDomainConfig request. Contains the configuration information of the requested 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,
"marshallers" : [ {
    "beanStyleGetterMethodName" : "getDomainConfig",
    "beanStyleSetterMethodName" : "setDomainConfig",
    "c2jName" : "DomainConfig",
    "c2jShape" : "ElasticsearchDomainConfig",
    "defaultConsumerFluentSetterDocumentation" : "The configuration information of the domain requested in the DescribeElasticsearchDomainConfig request. 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 ElasticsearchDomainConfig a consumer that will call methods on ElasticsearchDomainConfig.Builder.\n\n@link ElasticsearchDomainConfig\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 configuration information of the domain requested in the DescribeElasticsearchDomainConfig request."
"fluentSetterDocumentation": "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.\n\n@param domainConfig The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "domainConfig",
"getterDocumentation": "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.\n\n@return The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.",
"getterModel": {
  "returnType": "ElasticsearchDomainConfig",
  "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": "DomainConfig",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "DomainConfig",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
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"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "DomainConfig",
"sensitive": false,
"setterDocumentation": "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.\n\n@param domainConfig The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.\n\n@return 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" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.",
"variableSetterType" : "ElasticsearchDomainConfig",
"xmlNameSpaceUri" : null}
},
"membersAsMap" : {
"DomainConfig" : {
"beanStyleGetterMethodName" : "getDomainConfig",
"beanStyleSetterMethodName" : "setDomainConfig",
"c2jName" : "DomainConfig",
"c2jShape" : "ElasticsearchDomainConfig",
"defaultConsumerFluentSetterDocumentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.
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)}.
@param domainConfig a consumer that will call methods on { @link ElasticsearchDomainConfig.Builder}.
@return Returns a reference to this object so that method calls can be chained together.
@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.
@returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "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.
@returns Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {

"returnType" : "ElasticsearchDomainConfig",
"documentation" : null
},
"http" : {
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  "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.\n\n@param domainConfig The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.\n\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" : null
}
<code>DescribeElasticsearchDomainConfig</code> request.

```
    "simpleType" : "ElasticsearchDomainConfig",
    "variableSetterType" : "ElasticsearchDomainConfig"
},
"xmlNameSpaceUri" : null
}
},
"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getDomainConfig",
    "beanStyleSetterMethodName" : "setDomainConfig",
    "c2jName" : "DomainConfig",
    "c2jShape" : "ElasticsearchDomainConfig",
    "defaultConsumerFluentSetterDocumentation" : "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

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)).

@see domainConfig(ElasticsearchDomainConfig)

```

```

<!-- param domainConfig -->
@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" : "domainConfig",
  "fluentSetterDocumentation" : "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.

```

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@endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
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  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodname" : null,
  "fluentGetterMethodName" : "domainConfig",
  "fluentSetterDocumentation" : "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

```

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@endpointDiscoveryId" : false,
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  "eventHeader" : false,
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  "fluentEnumSetterMethodname" : null,
  "fluentGetterMethodName" : "domainConfig",
  "fluentSetterDocumentation" : "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

```

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@endpointDiscoveryId" : false,
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  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodname" : null,
  "fluentGetterMethodName" : "domainConfig",
  "fluentSetterDocumentation" : "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

```

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@endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
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  "fluentEnumSetterMethodname" : null,
  "fluentGetterMethodName" : "domainConfig",
  "fluentSetterDocumentation" : "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

```

```

@endpointDiscoveryId" : false,
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  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodname" : null,
  "fluentGetterMethodName" : "domainConfig",
  "fluentSetterDocumentation" : "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

```

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@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.

```

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@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.

```

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@endpointDiscoveryId" : false,
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  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodname" : null,
  "fluentGetterMethodName" : "domainConfig",
  "fluentSetterDocumentation" : "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

```

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@endpointDiscoveryId" : false,
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  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodname" : null,
  "fluentGetterMethodName" : "domainConfig",
  "fluentSetterDocumentation" : "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

```

```

@endpointDiscoveryId" : 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 configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.\n\n@param domainConfig The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.\n\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" : "The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.\n\nsetterMethodName" : "setDomainConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig",
  "variableName" : "domainConfig",
  "variableType" : "ElasticsearchDomainConfig",
  "documentation" : null,
  "xmlNameSpaceUri" : null
} ].
"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" : "Container for the parameters to the <code><a>DescribeElasticsearchDomain</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" : {
  "action" : "DescribeElasticsearchDomain",
  "locationName" : null,
  "requestUri" : "2015-01-01/es/domain/{DomainName}",
  "target" : null,
  "verb" : "GET",
  "xmlNameSpaceUri" : null
},
"members" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "The name of the Elasticsearch domain for which you want information. 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\n\n@see domainName(String)",
"deprecated" : false,
"documentation" : "The name of the Elasticsearch domain for which you want information.\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" : "The name of the Elasticsearch domain for which you want information.\n\n@param domainName The name of the Elasticsearch domain for which you want information.\n\n@return The name of the Elasticsearch domain for which you want information.\n\n@see domainName(String)",
"getterDocumentation" : "The name of the Elasticsearch domain for which you want information.\n\n@return The name of the Elasticsearch domain for which you want information.\n\n@see domainName(String)",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
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  "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" : "The name of the Elasticsearch domain for which you want information.",
   "simpleType" : "String",
   "variableSetterType" : "String"
},
" xmlNameSpaceUri" : null
},

"membersAsMap" : {
"DomainName" : {
   "beanStyleGetterMethodName" : "getDomainName",
   "beanStyleSetterMethodName" : "setDomainName",
   "c2jName" : "DomainName",
   "c2jShape" : "DomainName",
   "defaultConsumerFluentSetterDocumentation" : "The name of the Elasticsearch domain for which you want information.",
   "nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link #build()].
When the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #domainName(String)].

@returns 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 for which you want information.",
   "endpointDiscoveryId" : false,
   "enumType" : null,
   "eventHeader" : false,
   "eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "\n\n@param domainName The name of the Elasticsearch domain for which you want information.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "\n\n@param domainName The name of the Elasticsearch domain for which you want information.\n@return The name of the Elasticsearch domain for which you want information."
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
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  "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" : "\n\n@param domainName The name of the Elasticsearch domain for which you want information.\n@return The name of the Elasticsearch domain for which you want information."
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "sensitive" : false
}
"variableSetterType" : "String",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "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" : "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" : "The name of the Elasticsearch domain for which you want information.<p>
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.
@see #domainName(String)",
"getterDocumentation" : "The name of the Elasticsearch domain for which you want information.<p>
Get the name of the Elasticsearch domain for which you want information.
@return The name of the Elasticsearch domain for which you want information.
@see #domainName(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" : "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",
"isStreaming" : false,
"setterDocumentation" : 
"@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" : "The name of the Elasticsearch domain for which you want information.
  "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" : "The result of a <code>DescribeElasticsearchDomain</code> request. Contains the status of the domain specified in the request. 

  <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()}. 
  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

@Deprecated
@see #domainStatus(ElasticsearchDomainStatus)

"deprecated" : false,
"documentation" : "<p>The current status of the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>

@return Returns a reference to this object so that method calls can be chained together.

@param domainStatus
The current status of the Elasticsearch domain.

@see #domainStatus

getterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>

@return 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
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"sensitive" : false,
"setterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>

@see #domainStatus

setterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>"
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" : "The current status of the Elasticsearch domain.",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "DomainStatus" : {
    "beanStyleGetterMethodName" : "getDomainStatus",
    "beanStyleSetterMethodName" : "setDomainStatus",
    "c2jName" : "DomainStatus",
    "c2jShape" : "ElasticsearchDomainStatus",
    "defaultConsumerFluentSetterDocumentation" : "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().

When the @link Consumer completes, @link ElasticsearchDomainStatus.Builder#build() is called immediately and its result is passed to @link ElasticsearchDomainStatus.ElasticsearchDomainStatus a consumer that will call methods on @link ElasticsearchDomainStatus.Builder.

@returns Returns a reference to this object so that method calls can be chained together.

@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" : "The current status of the Elasticsearch domain.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "domainStatus".\n\n\n\nOpen Source Used In MSX SD-WAN Service Pack 4.0.0  9066
"getterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>\n@return 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
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"sensitive" : false,
"setterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>\n@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
}
],
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainStatus",
"beanStyleSetterMethodName" : "setDomainStatus",
"c2jName" : "DomainStatus",
"c2jShape" : "ElasticsearchDomainStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain.</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()}.<br>
When the [@link Consumer] completes, [@link ElasticsearchDomainStatus.Builder#build()] is called immediately and its result is passed to [@link #domainStatus(ElasticsearchDomainStatus)]<br>
@link ElasticsearchDomainStatus.Builder]<br>
@link @return Returns a reference to this object so that method calls can be chained together.<br>
@link #domainStatus(ElasticsearchDomainStatus)"
],
"deprecated" : false,
"documentation" : "<p>The current status of the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>
@param domainStatus The current status of the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainStatus",
"getterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>
@return The current status of the Elasticsearch domain.<br>
@link #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,
"unmarshallLocationName" : "DomainStatus",
"uri" : false
}
@param domainStatus The current status of the Elasticsearch domain.","setterMethodName" : "setDomainStatus","setterModel" : {
"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "domainStatus",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : null,"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "domainStatus",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : "\n\n\n<p>The current status of the Elasticsearch domain.</p>",
"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
},"xmlNameSpaceUri" : null
"flattened" : false,"resultWrapper" : null
}
variable" : {
  "variableDeclarationType" : "DescribeElasticsearchDomainResponse",
  "variableName" : "describeElasticsearchDomainResponse",
  "variableType" : "DescribeElasticsearchDomainResponse",
  "documentation" : null,
  "simpleType" : "DescribeElasticsearchDomainResponse",
  "variableSetterType" : "DescribeElasticsearchDomainResponse"
},
"wrapper" : false
},
"DescribeElasticsearchDomainsRequest" : {
  "c2jName" : "DescribeElasticsearchDomainsRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for the parameters to the <code><a>DescribeElasticsearchDomains</a></code> operation. By default, the API returns the status of all 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" : {
    "action" : "DescribeElasticsearchDomains",
    "locationName" : null,
    "requestUri" : "/2015-01-01/es/domain-info",
    "target" : null,
    "verb" : "POST",
    "xmlNameSpaceUri" : null
  },
  "members" : [
    "beanStyleGetterMethodName" : "getDomainNames",
    "beanStyleSetterMethodName" : "setDomainNames",
    "c2jName" : "DomainNames",
    "c2jShape" : "DomainNameList"
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 `domainNames(List<String>)`. Returns a reference to this object so that method calls can be chained together.

```java
@see domainNames(List<String>)
```

- `defaultConsumerFluentSetterDocumentation`: "The Elasticsearch domains for which you want information.</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 `domainNames(List<String>)`. Returns a reference to this object so that method calls can be chained together.

```java
@see domainNames(List<String>)
```

- `documentation`: "The Elasticsearch domains for which you want information.</p>
- `endpointDiscoveryId`: false
- `enumType`: null
- `eventHeader`: false
- `eventPayload`: false
- `fluentEnumGetterMethodName`: null
- `fluentEnumSetterMethodName`: null
- `fluentGetterMethodName`: "domainNames"
- `fluentSetterMethodName`: "domainNames"
- `getterDocumentation`: "The Elasticsearch domains for which you want information.</p>
  Attempts to modify the collection returned by this method will result in an `UnsupportedOperationException`.

```java
@return Returns a reference to this object so that method calls can be chained together.
```

```java
@see domainNames(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": "DomainNames",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "DomainNames",
  "uri": false
}
- `idempotencyToken`: false
- `isBinary`: false
- `jsonValue`: false
- `list`: true
- `listModel`: {
  "returnType": "java.util.List<String>",
  "documentation": null
}
"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. 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 ]
@param @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.

@fluent
@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.

@getter
@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": "",
  "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" : "The Elasticsearch domains for which you want information.

@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.
  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
  @return Returns a reference to this object so that method calls can be chained together.
  @see #domainNames(List<String>)",
  "deprecated" : false,
  "documentation" : "The Elasticsearch domains for which you want information.
  @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. 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. 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
@return Returns a reference to this object so
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",
"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>\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>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>
}
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "member" : "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>) ].

@see #domainNames(List<String>)"
},
  "deprecated" : false,
  "documentation" : "The Elasticsearch domains for which you want information.",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainNames",
  "fluentSetterMethodName" : "domainNames",
  "getterDocumentation" : "The Elasticsearch domains for which you want information.
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@see #domainNames(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" : "DomainNames",
  }
}
"queryString" : false,
"status_code" : false,
"unmarshall_location_name" : "DomainNames",
"uri" : false
},
"idempotency_token" : false,
"is_binary" : false,
"json_value" : false,
"list" : true,
"list_model" : {
  "impl_type" : "java.util.ArrayList",
  "interface_type" : "java.util.List",
  "list_member_model" : {
    "bean_style_getter_method_name" : "getMember",
    "bean_style_setter_method_name" : "setMember",
    "c2j_name" : "member",
    "c2j_shape" : "DomainName",
    "default_consumer_fluent_setter_documentation" : "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, the call to @link #member(String)\n@returns Returns a reference to this object so that method calls can be chained together.@link #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpoint_discovery_id" : false,
    "enum_type" : null,
    "event_header" : false,
    "event_payload" : false,
    "fluent_enum_getter_method_name" : null,
    "fluent_enum_setter_method_name" : null,
    "fluent_getter_method_name" : "member",
    "fluent_setter_documentation" : "Sets the value of the Member property for this object.\n\n@returns Returns a reference to this object so that method calls can be chained together.",
    "fluent_setter_method_name" : "member",
    "getter_documentation" : "Returns the value of the Member property for this object.\n\n@returns The value of the Member property for this object.",
    "getter_model" : {
      "return_type" : "String",
      "documentation" : null
    }
  },
  "http" : {
    "additional_marshalling_path" : null,
    "additional_unmarshalling_path" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "impl_type" : "java.util.ArrayList",
    "interface_type" : "java.util.List",
    "list_member_model" : {
      "bean_style_getter_method_name" : "getMember",
      "bean_style_setter_method_name" : "setMember",
      "c2j_name" : "member",
      "c2j_shape" : "DomainName",
      "default_consumer_fluent_setter_documentation" : "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, the call to @link #member(String)\n@returns Returns a reference to this object so that method calls can be chained together.@link #member(String)",
      "deprecated" : false,
      "documentation" : "",
      "endpoint_discovery_id" : false,
      "enum_type" : null,
      "event_header" : false,
      "event_payload" : false,
      "fluent_enum_getter_method_name" : null,
      "fluent_enum_setter_method_name" : null,
      "fluent_getter_method_name" : "member",
      "fluent_setter_documentation" : "Sets the value of the Member property for this object.\n\n@returns Returns a reference to this object so that method calls can be chained together.",
      "fluent_setter_method_name" : "member",
      "getter_documentation" : "Returns the value of the Member property for this object.\n\n@returns The value of the Member property for this object.",
      "getter_model" : {
        "return_type" : "String",
        "documentation" : null
      },
      "http" : {
        "additional_marshalling_path" : null,
        "additional_unmarshalling_path" : 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>
@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": null,
  "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" : "<p>The result of a <code>DescribeElasticsearchDomains</code> request. Contains the status of the specified domains or all domains owned by the account.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "endpointDiscoveryId" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshaller" : null,
  "members" : [{
    "beanStyleGetterMethodName" : "getDomainStatusList",
    "beanStyleSetterMethodName" : "setDomainStatusList",
    "c2jName" : "DomainStatusList",
    "c2jShape" : "ElasticsearchDomainStatusList",
    "defaultConsumerFluentSetterDocumentation" : "<p>The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request. This is a convenience that creates an instance of the <code>List&lt;ElasticsearchDomainStatus&gt;</code> avoiding the need to create one manually via <code>List&lt;ElasticsearchDomainStatus&gt;#builder()</code>. When the <code>@link Consumer</code> completes, <code>@link ElasticsearchDomainStatus.Builder#build()</code> is called immediately and its result is passed to <code>@link ElasticsearchDomainStatus.List@link #domainStatusList(List&lt;ElasticsearchDomainStatus&gt;)</code>. A <code>domainStatusList</code> a consumer that will call methods on <code>@link ElasticsearchDomainStatus.Builder</code> returns a reference to this object so that method calls can be chained together.<code>@see #domainStatusList(List&lt;ElasticsearchDomainStatus&gt;)</code>.
    "deprecated" : false,
    "documentation" : "<p>The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.</p>
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "domainStatusList",
  },
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.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.

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.

@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" : "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.

@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.

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>
},
"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>
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, a call is made to
{@link List<ElasticsearchDomainStatus>.Builder#build()} 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,
"eventId" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "null",
"fluentEnumSetterMethodName" : "null",
"fluentGetterMethodName" : "domainStatusList",
"fluentSetterDocumentation" : "<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.
@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 UnsupportedOperationException.

@return The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.
"getterModel" : {
  "returnType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : "null"
"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",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"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.",

"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"
}
"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
"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 id="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,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatusList",
"fluentSetterDocumentation" : "<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.
@return Returns a reference to this object so that
method calls can be chained together.",
"fluentSetterMethodName" : "domainStatusList",
"getterDocumentation" : "<p>Attempts to modify the collection returned by
this method will result in an UnsupportedOperationException.<p>"
"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 ElasticsearchDomainStatus.Builder#build} is called immediately and its result is passed to {link ElasticsearchDomainStatus#member}. @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.
@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",
"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@p...\n
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<br>\<code\>DescribeElasticsearchDomains</\> request.\</\p\>\n\@param domainStatusList The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.\</code",
"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>\<code\>DescribeElasticsearchDomains</\> request.\</\p\>\n\@param domainStatusList The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.\</code",
  "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><a>DescribeElasticsearchInstanceTypeLimits</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" : "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>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#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link
DomainName(String)

@see

String.Builder

@return

null,

String

null,

false,

false,

false,

false,

false,

false,

false,

false,

false,

false,

false,

false,

false,

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 <code>&lt;a&gt;Limits&lt;/a&gt; </code> for 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 Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt; </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" : "<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"
},
"xmlnsSpaceUri" : 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. \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 #instanceTypeAsString(String)}\n\n@param instanceType a consumer that will call methods on \n{@link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see \n@link #instanceType(String)\n", "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. \n</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>
@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch
<code> <a>Limits</a> </code> are needed.
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained
together.
@see ESPartitionInstanceType",

"fluentSetterMethodName" : "instanceType",

"getterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch
<code> <a>Limits</a> </code> are needed. </p>
<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].
</p>
@return The instance type for an Elasticsearch cluster for which Elasticsearch
<code> <a>Limits</a> </code> are needed.
@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",

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"setterDocumentation" : "<p>The instance type for an Elasticsearch cluster for which Elasticsearch <code>Limits</code> are needed.</p>
@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch <code>Limits</code> are needed. &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
@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>Limits</code> are needed.</p>
"simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
},
"beanStyleGetterMethodName" : "getElasticsearchVersion",
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "<p>Version of Elasticsearch for which <code>Limits</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. &nbsp;
@see ElasticsearchVersion(String)",
"deprecated" : false,
"documentation" : "<p>Version of Elasticsearch for which <code>Limits</code> are needed.</p>",
"endpointDiscoveryId" : false,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p>Version of Elasticsearch for which <code>Limits</code> are needed. &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n...
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
],
"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>
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 {@link 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><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. 

@endpointDiscoveryId" : false,
"eventPayload" : false,
"fluentEnumSetterMethodName" : "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 Elasticsearch <code><a>Limits</a></code> 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 <code>&lt;a&gt;Limits&lt;/a&gt; &lt;/code&gt; for existing domain. &lt;/p&gt;&lt;p&gt;\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 &lt;code&gt; &lt;a&gt;Limits&lt;/a&gt; &lt;/code&gt; for existing domain.&lt;/p&gt;",
"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 &lt;code&gt; &lt;a&gt;Limits&lt;/a&gt; &lt;/code&gt; for existing domain."
}
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" : "<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#builder()}. When the {@link Consumer} completes, {
@link String.Builder#build()} is called immediately and its result is passed to {
@link ElasticsearchVersion(String)}. {
@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 <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>
@throws ElasticsearchVersionException when the requested version is not available.
@see #elasticsearchVersion(String)"
 ],
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : "uri",
 "marshallLocation" : "PATH",
 "marshallLocationName" : null,
 "marshallLocationPart" : null,
 "marshallerIntegrationigth" : null,
 "marshallerIntegrationigGroupName" : null,
 "marshallerIntegrationigroups" : null,
 "marshallerIntegrationigroup" : null,
 "marshallerIntegrationigroupIndex" : null,
 "marshallerIntegrationigroupIndexName" : null,
 "marshallerIntegrationigroupIndexPrice" : null,
 "marshallerIntegrationigroupIndexPriceName" : null,
 "marshallerIntegrationigroupIndexPricePrice" : null,
 "marshallerIntegrationigroupIndexPricePriceName" : null,
 "marshallerIntegrationigroupIndexPricePricePrice" : null,
 "marshallerIntegrationigroupIndexPricePricePriceName" : null,
 "marshallerIntegrationigroupIndexPricePricePricePrice" : null,
 "marshallerIntegrationigroupIndexPricePricePricePriceName" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePrice" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePriceName" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePricePrice" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePricePriceName" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePricePricePrice" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePricePricePriceName" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePricePricePricePrice" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePricePricePricePriceName" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePricePricePricePricePrice" : null,
 "marshallerIntegrationigroupIndexPricePricePricePricePricePricePricePricePriceName" : null,
"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
When the Consumer completes, `String.Builder#build()` is called immediately and its result is passed to `#instanceTypeAsString(String)`.

@param instanceType 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 #instanceType(String)
"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>
<a>Limits</a></code> are needed. <p/>
@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch <code>
<a>Limits</a></code> are needed. <p/>
@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>
<a>Limits</a></code> are needed. </p>
  "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>
<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()}. When the { @link Consumer} completes,
  { @link String.Builder#build()} is called immediately and its result is passed to { @link
  #domainName(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. <p/>
  @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>&lt;a&gt;Limits&lt;/a&gt; &lt;/code&gt; 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>&lt;a&gt;Limits&lt;/a&gt; &lt;/code&gt; for 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 Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt; &lt;/code&gt; for existing domain.
@return 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 Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt; &lt;/code&gt; for 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 Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt; &lt;/code&gt; 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,
"marshallerType" : "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 <code><a>Limits</a></code> for 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 Elasticsearch <code><a>Limits</a></code> for existing domain.
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "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."
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "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."
},
"complexType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "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."
},
"complexType" : "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><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\nWhen the {{@link Consumer}} completes, {{@link String.Builder#build()}} is called immediately and its result is passed to {{@link #instanceTypeAsString(String)}}.\n\n@see {{@link #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>@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch
<code> <a>Limits</a> </code> are needed.<p>@see
EPartitionInstanceType<br/>
@return Returns a reference to this object so that method calls can be chained
together.<p>@see EPartitionInstanceType",
"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
EPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available
from [@link #instanceTypeAsString].
</p>
@return The instance type for an Elasticsearch cluster for which
Elasticsearch <code> <a>Limits</a> </code> are needed.<p>@see EPartitionInstanceType",

"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> <a>Limits</a> </code> are needed. <p>@param instanceType The instance type for an Elasticsearch cluster for
which Elasticsearch <code><a>Limits</a></code> are needed.\n@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" : "The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed."
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
 {
"beanStyleGetterMethodName" : "getElasticsearchVersion",
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "Version of Elasticsearch for which Elasticsearch <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()].\nWhen the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link ElasticsearchVersion(String)].\n@return Returns a reference to this object so that method calls can be chained together.\n@see ElasticsearchVersion(String)",
"deprecated" : false,
"documentation" : "Version of Elasticsearch for which Elasticsearch <code><a>Limits</a></code> are needed.\nendpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "Version of Elasticsearch for which Elasticsearch <code><a>Limits</a></code> are needed.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "Version of Elasticsearch for which Elasticsearch <code><a>Limits</a></code> are needed.\n@see ElasticsearchVersion(String)"
@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" : "\n\n@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"
}
"variableType": "String",
"documentation": "<p>Version of Elasticsearch for which <code><a>Limits</a></code> are needed. </p>",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
}
],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "InstanceType", "ElasticsearchVersion" ],
"shapeName": "DescribeElasticsearchInstanceTypeLimitsRequest",
"simpleMethod": false,
"unmarshaller": null,
"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><a>DescribeElasticsearchInstanceTypeLimits</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,
"unmarshaller": null,
"unmarshaller": null,
"variable": {
"variableDeclarationType": "DescribeElasticsearchInstanceTypeLimitsRequest",
"variableName": "describeElasticsearchInstanceTypeLimitsRequest",
"variableType": "DescribeElasticsearchInstanceTypeLimitsRequest",
"documentation": null,
"simpleType": "DescribeElasticsearchInstanceTypeLimitsRequest",
"variableSetterType": "DescribeElasticsearchInstanceTypeLimitsRequest"
},
"wrapper": false

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"beanStyleGetterMethodName" : "getLimitsByRole",
"beanStyleSetterMethodName" : "setLimitsByRole",
"c2jName" : "LimitsByRole",
"c2jShape" : "LimitsByRole",
"defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the LimitsByRole property for this object. This is a convenience that creates an instance of the [Map<String,Limits>.Builder] avoiding the need to create one manually via [Map<String,Limits>#builder()]. When the [Consumer] completes, [Map<String,Limits>.Builder#build()] is called immediately and its result is passed to [limitsByRole(Map<String,Limits>)].
@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. The new value for the LimitsByRole property for this object so that method calls can be chained together.
@see #limitsByRole(Map<String,Limits>)",
"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.
@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",
  "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.\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 key(String)}\n\n@param key a consumer that will call methods on {link String.Builder} under return\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\nThe 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.",
  "fluentSetterMethodName" : "key",
  "getterDocumentation" : "Retrieves 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",
"setterDocumentation" : "Sets the value of the Key property for this object. 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" : "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
When the `@link Consumer` completes, `@link Limits.Builder#build()` is called immediately and its result is passed to `@link value(Limits).`  

- `@param value` a consumer that will call methods on `@link Limits.Builder`.  

- `@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" : "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" : "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",  
  "returnType" : "Limits",  
  "documentation" : null  
}
"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": "Limits",
  "variableName": "value",
  "variableType": "Limits",
  "documentation": null,
  "simpleType": "Limits",
  "variableSetterType": "Limits"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Limits",
  "variableName": "value",
  "variableType": "Limits",
  "documentation": null,
  "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": "",
  "simple": false,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "java.util.Map<String,Limits>",
    "variableName": "limitsByRole",
    "variableType": "java.util.Map<String,Limits>",
    "documentation": "",
    "simple": true,
    "timestampFormat": null,
    "variable": {"variableDeclarationType": "java.util.Map<String,Limits>"}
"simpleType" : "Map<String,Limits>",
"variableSetterType" : "java.util.Map<String,Limits>",
"xmlNameSpaceUri" : null
}

"membersAsMap" : {
  "LimitsByRole" : {
    "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>)].

    @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.

    @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. 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.

    @see #limitsByRole(Map<String,Limits>)",
    "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.

    @return The value of the LimitsByRole property for this object.

    @see #limitsByRole(Map<String,Limits>)",
    "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)}.
@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.

The new value for the Key property for this object.
@see #key(String)

@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.
@see #key(String)

@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.

@method setKey",
"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.

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()}. When the {@link Consumer} completes, {@link
Limits.Builder#build()} is called immediately and its result is passed to {@link #value(Limits)}.

@link Limits.Builder]

@returns Returns a reference to this object so that method calls can be chained together.

@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.

The new value for the Value property for this object.

@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.

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.

@par

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.

@par 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
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getLimitsByRole",
  "beanStyleSetterMethodName" : "setLimitsByRole",
  "c2jName" : "LimitsByRole",
  "c2jShape" : "LimitsByRole",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the LimitsByRole property for this object.\nThis 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()}.\nWhen 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@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.\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n@see #limitsByRole(String, Limits)"
},
  "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#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. @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.\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"
}
```
"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#builder()}. When the {@link Consumer} completes, {@link Limits.Builder#build()} is called immediately and its result is passed to {@link #value(Limits)}. @param value a consumer that will call methods on {@link Limits.Builder}@return Returns a reference to this object so that method calls can be chained together.@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. 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",}
"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" : null,
"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,
"skipGeneratingUnmarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingMarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
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"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": "The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.\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 #reservedElasticsearchInstanceOfferingId(String)}\n@deprecated\n@see 
#reservedElasticsearchInstanceOfferingId(String)",
    "deprecated": false,
    "documentation": 
"<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.\n</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.\n</p>\n@deprecated
reservedElasticsearchInstanceOfferingId\n\n@return
\nReturns a reference to this object so that method calls can be chained together.\n@see
#reservedElasticsearchInstanceOfferingId(String)"}
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>\n\n@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,
"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>\n\n@param reservedElasticsearchInstanceOfferingId
\n\n@set 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#builder()}. When the {@link Integer.Builder#build()} is called immediately and its result is passed to the fuction.

When the method completes, the result is passed to the method.

@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>
@return Returns a reference to this object so that method calls can be chained together.
@see #maxResults(Integer)",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@return Set this value to limit the number of results returned. If not specified, defaults to 100.
@see #maxResults(Integer)",
"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"
},
"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.\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@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.\n\n@endparam nextToken\n\nIt is used for pagination.\n\n@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" : "nextToken",
"fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.\n\n@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.\n\n@return NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
\n@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
},
"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",
  "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" : {
  "MaxResults" : {
    "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)].

@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. <p>@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>@return 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
"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><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#nextToken(String)]. When the [String.Builder#nextToken(String)] method completes, the result is returned. A convenience that creates a String instance by calling [String.Builder#build()] immediately. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [String#nextToken(String)].
</p>
"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>"
}
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 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",
  "marshallerLocationName" : "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."

"setterMethodIdName" : "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.\n",
"simpleType" : "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.\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\n@param reservedElasticsearchInstanceOfferingId a consumer that will call methods on \{ @link String.Builder \}\n\n@see
#reservedElasticsearchInstanceOfferingId(String)\n",
"deprecated" : false,
"documentation" : "The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.\n",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.\n\n\n@param reservedElasticsearchInstanceOfferingId The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.\n\n@see
\#reservedElasticsearchInstanceOfferingId(String)\n",
"getterDocumentation" : "The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.\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" : "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>&lt;p&gt;\n@param reservedElasticsearchInstanceOfferingId\nThe offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.&lt;/p&gt;",
"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" : "&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;",
    "simpleType" : "String"
}
"variableSetterType": "String",
},
"xmlNameSpaceUri": null
}
},
"nonStreamingMembers": [
{
"beanStyleGetterMethodName": "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName": "setReservedElasticsearchInstanceOfferingId",
"c2jName": "ReservedElasticsearchInstanceOfferingId",
"c2jShape": "GUID",
"defaultConsumerFluentSetterDocumentation": "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation 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, {@link String.Builder#build()} is called immediately and its result is passed to the specified reservation identifier.<p>
@param reservedElasticsearchInstanceOfferingId 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.</p>
@see #reservedElasticsearchInstanceOfferingId(String)",
"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.
@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>
"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>\n@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#builder()}. When the { @link Consumer} completes, { @link Integer.Builder#build() } is called immediately and its result is passed to { @link Integer.Builder#build() }.

When the { @link Consumer} completes, { @link Integer.Builder#build() } is called immediately and its result is passed to { @link Integer.Builder#build() }.

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@see { @link Integer.Builder#build() }.

@see { @link Integer.Builder#build() }.

@see { @link Integer.Builder#build() }.

@see { @link Integer.Builder#build() }.

@see { @link Integer.Builder#build() }.

@see { @link Integer.Builder#build() }.
"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.<br/>
@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>

"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.<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()}.<br/>
When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}.<br/>
@see #nextToken(String)
</p>

"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>\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.</p>\n@return 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>\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" : 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
<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" : null,
"members" : [
  {
    "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)}.<p>@param nextToken a consumer that will call methods on {@link String.Builder} so that method calls can be chained together.<p>@see #nextToken(String)"
  },
  {
    "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.<p>@param nextToken Provides an identifier to allow retrieval of paginated results.<p>@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>
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
},
{ "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 <a target="_blank" href="">
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</a>
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>) \}. \n\n**@param** reservedElasticsearchInstanceOfferings a consumer that will call methods on \{ @link List<ReservedElasticsearchInstanceOffering>.Builder\}@n@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 @consumerReservedElasticsearchInstanceOffering.Builder#build() completes, @link @consumerReservedElasticsearchInstanceOffering.Builder#build() is called immediately and its result is passed to @link @consumerReservedElasticsearchInstanceOffering).\n\n@throws IllegalArgumentException \nIf the value of Member property is not a valid value for ReservedElasticsearchInstanceOffering.
\n@throws NullPointerException \nIf the value of Member property is null.
\n@see #member(ReservedElasticsearchInstanceOffering)"
    },
    "deprecated": false,
    "documentation": "",
    "enumType": null,
    "endpointDiscoveryId": false,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "member",
    "fluentSetterDocumentation": "Sets the value of the Member property for this object.
\n@throws IllegalArgumentException \nIf the value of Member property is not a valid value for ReservedElasticsearchInstanceOffering.
\n@throws NullPointerException \nIf the value of Member property is null.
\n@see #member(ReservedElasticsearchInstanceOffering)",
    "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@throws IllegalArgumentException \nIf the value of Member property is not a valid value for ReservedElasticsearchInstanceOffering.
\n@throws NullPointerException \nIf the value of Member property is null.
\n@see #member(ReservedElasticsearchInstanceOffering)",
    "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,
        "supportedFeatures": 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@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"
},
"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" : "List of reserved Elasticsearch instance offerings",
  "simpleType" : "List<ReservedElasticsearchInstanceOffering>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
"NextToken" : {
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultConsumerFluentSetterDocumentation" : "Provides an identifier to allow retrieval of paginated results."
  },
  "documentation" : "Provides an identifier to allow retrieval of paginated results."
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Provides an identifier to allow retrieval of paginated results."
"deprecated" : false,
"documentation" : "Provides an identifier to allow retrieval of paginated results."
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
null

@returns 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,
  "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.\n</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>\nThis is a convenience that creates an instance of the {\@link \nList<ReservedElasticsearchInstanceOffering> Builder} avoiding the need to create one manually via \{ @link \nList<ReservedElasticsearchInstanceOffering>#builder()\}.\n\nWhen the \{ @link Consumer \} completes, \{ @link \nList<ReservedElasticsearchInstanceOffering> Builder#build()\} is called immediately and its result is passed to \{ @link \n#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)\}.\n\n@param \nreservedElasticsearchInstanceOfferings a consumer that will call methods on \{ @link \nList<ReservedElasticsearchInstanceOffering> Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see \n#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>\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@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, the result is passed to another method that will call methods on the {ReservedElasticsearchInstanceOffering.Builder} and return 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.
@see #member(ReservedElasticsearchInstanceOffering)"
    }
}
"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@\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"
},
"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
],

"nonStreamingMembers" : [
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"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
]
"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)].
@n
@param nextToken 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 #nextToken(String)",
"deprecated" : false,
"documentation" : "<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)].
@n
@param nextToken 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 #nextToken(String)",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@return Provides an identifier to allow retrieval of paginated results.
@n@return Provides an identifier to allow retrieval of paginated results.@n@see #nextToken(String)"
"getterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@return Provides an identifier to allow retrieval of paginated results.
@n@see #nextToken(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" : "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" : "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" : "Provides an identifier to allow retrieval of paginated results."
},
"xmlNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferings",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferings",
  "c2jName" : "ReservedElasticsearchInstanceOfferings",
  "c2jShape" : "ReservedElasticsearchInstanceOfferingList",
  "defaultValueConsumerFluentSetterDocumentation" : "List of reserved Elasticsearch instance offerings
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 List<ReservedElasticsearchInstanceOffering>.

@see #reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
  "deprecated" : false,
  "documentation" : "List of reserved Elasticsearch instance offerings",
  "enumDiscoveryId" : 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.\n\nThis is a convenience that creates an instance of the { @link ReservedElasticsearchInstanceOffering.Builder} avoiding the need to create one manually via { @link ReservedElasticsearchInstanceOffering.Builder()}.\n\nWhen the { @link Consumer} completes, { @link ReservedElasticsearchInstanceOffering.Builder#build()} is called immediately and its result is passed to { @link #member(ReservedElasticsearchInstanceOffering)}\n\n@param member a consumer that will call methods on { @link ReservedElasticsearchInstanceOffering.Builder}\n\n@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.\n\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\n@returns 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@returns Returns a reference to this object so that method calls can be chained together.",
  "setterModel" : {
    "returnType" : "ReservedElasticsearchInstanceOffering",
    "documentation" : null
  }.

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>
@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>",
  "xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : 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" : "Container for parameters to <code>DescribeReservedElasticsearchInstances</code>.
  "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" : "<p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</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()].</p><p>When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #reservedElasticsearchInstanceId(String)].</p>
@param reservedElasticsearchInstanceId a consumer that will call methods on [@link String.Builder] and return a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)",
"deprecated" : false,
"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>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "<p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p><p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p><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.
@return Returns a reference to this object so that method calls can be chained together.
"getterDocumentation" : "<p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p>
@see #reservedElasticsearchInstanceId(String)",
"getterModel" : {
"returnType" : "String",}
**ReservedElasticsearchInstanceId**

- **documentation**: The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.
- **setterDocumentation**: 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."
  ```
reservation that matches the specified reserved Elasticsearch instance ID.
"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)} 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 #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.
"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" : "<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><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, { @link String.Builder#build()} is called immediately and its result is passed to
Open Source Used In MSX SD-WAN Service Pack 4.0.0
"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
},
"membersAsMap" : {
  "MaxResults" : {
    "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#builder()}.\n
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,
Set this value to limit the number of results returned. If not specified, defaults to 100.

```java
@Param maxResults
```

Set this value to limit the number of results returned. If not specified, defaults to 100.

```java
@return
```

Returns a reference to this object so that method calls can be chained together.

```java
setMaxResults
```

Set this value to limit the number of results returned. If not specified, defaults to 100.

```java
setMaxResults
```

Set this value to limit the number of results returned. If not specified, defaults to 100.

```java
setMaxResults
```

Set this value to limit the number of results returned. If not specified, defaults to 100.

```java
setMaxResults
```

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setMaxResults
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setMaxResults
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```java
setMaxResults
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```java
setMaxResults
```

```java
setMaxResults
```
"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)}. When the { @link String.Builder} completes, a consumer that will call methods on { @link String.Builder} which then returns the result.

When the { @link String.Builder} completes, a consumer that will call methods on { @link String.Builder} which then returns the result.
@param nextToken a consumer that will call methods on { @link String.Builder} which then returns the result.
@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>
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 String.Builder} completes, a consumer that will call methods on { @link String.Builder} which then returns the result.

When the { @link String.Builder} completes, a consumer that will call methods on { @link String.Builder} which then returns the result.
@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>
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 String.Builder} completes, a consumer that will call methods on { @link String.Builder} which then returns the result.

When the { @link String.Builder} completes, a consumer that will call methods on { @link String.Builder} which then returns the result.
@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)",
"getterModel" : {
"returnType" : "String",
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

```plaintext
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
```

```plaintext
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
```

```plaintext
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
```

```plaintext
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
```
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ReservedElasticsearchInstanceId" : {
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
"c2jName" : "ReservedElasticsearchInstanceId",
"c2jShape" : "GUID",
"defaultConsumerFluentSetterDocumentation" : "<p>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 [link String#builder()].
When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #reservedElasticsearchInstanceId(String)].

 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>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "<p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p>
@return 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" : "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" : "<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
},
"nonStreamingMembers" : [ {

"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
"c2jName" : "ReservedElasticsearchInstanceId",
"c2jShape" : "GUID",
"defaultConsumerFluentSetterDocumentation" : "<p>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 [@link String.Builder#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]
@return Returns a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)",
"deprecated" : false,
"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>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "<p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p>
@return Returns a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)",
"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": "<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>

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 [link]
#maxResults(Integer)

@param maxResults 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.

@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>Set this value to limit the number of results returned. If not specified, defaults to 100.<</p>

@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. If not specified, defaults to 100.</p><p>Set this value to limit the number of results returned. If not specified, defaults to 100.

@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",
Set this value to limit the number of results returned. If not specified, defaults to 100.

```
@Param maxResults
```

<table>
<thead>
<tr>
<th>Setter Method Name</th>
<th>Setter Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>setMaxResults</code></td>
<td>Set this value to limit the number of results returned. If not specified, defaults to 100.</td>
</tr>
</tbody>
</table>

```
Bean Style Getter Method Name: getNextToken,
Bean Style Setter Method Name: setNextToken,
```

```
C2J Name: NextToken,
C2J Shape: NextToken,
```

```
Default Consumer Fluent Setter Documentation: NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
```

```
Endpoint Discovery Id: false,
Enum Type: null,
Event Header: false,
Event Payload: false,
```

```
Fluent Enum Getter Method Name: null,
Fluent Enum Setter Method Name: null,
```

```
Fluent Getter Method Name: "nextToken",
Fluent Setter Documentation: NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
```

```
Endpoint Discovery Id: false,
Enum Type: null,
Event Header: false,
Event Payload: false,
```

```
Fluent Enum Getter Method Name: null,
Fluent Enum Setter Method Name: null,
```

```
Fluent Getter Method Name: "nextToken",
Fluent Setter Documentation: 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 `StringBuilder` avoiding the need to create one manually via `new StringBuilder()`. When the `@link Consumer` completes, `@link StringBuilder#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.

```
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
```

```
@see #nextToken(String)
```
containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@returns Returns a reference to this object so that method calls can be chained together.

@see http

@type String

@returns String

@see http

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.\(<p>\)
\,"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>
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} 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 Returns a reference to this object so that method calls can be chained together.

@see #nextToken(String)",
  "fluentSetterMethodName" : "nextToken",
  "getterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@return Provides an identifier to allow retrieval of paginated results.

@see #nextToken(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" : "NextToken",
    "queryString" : false,
    "statusCode" : false,
    "statusCodeMember" : 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, the code via
{@link List<ReservedElasticsearchInstance>.Builder#build()} is called immediately and its
result is passed to
{@link #reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)}. 
@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",
  }
}
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()} completes, the {ReservedElasticsearchInstance.Builder.build()} result is passed to the {ReservedElasticsearchInstance.Builder.build()} method. The new value for the Member property for this object.

```
@see #member(ReservedElasticsearchInstance)
```

Returns a reference to this object so that method calls can be chained together.

```
return
```

The value of the Member property for this object.

```
return
```

### Fluent Setter Documentation

Sets the value of the Member property for this object.

```
Sets the value of the Member property for this object.
```

```
member
```

The new value for the Member property for this object.

```
member
```

### Fluent Getter Method Name

```
member
```

### Fluent Getter Method Documentation

```
Returns the value of the Member property for this object.
```

```
return
```

The value of the Member property for this object.

```
return
```

### Fluent Setter Method Name

```
member
```

### Fluent Setter Method Documentation

```
Sets the value of the Member property for this object.
```

```
member
```

```
@see #member(ReservedElasticsearchInstance)
```
"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":"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":"<p>List of reserved Elasticsearch instances.</p>
@param
reservedElasticsearchInstances List of reserved Elasticsearch instances.",
"setterMethodName":"setReservedElasticsearchInstances",
"setterModel":{
  "variableDeclarationType":"java.util.ArrayList<ReservedElasticsearchInstance>",
  "variableName":"reservedElasticsearchInstances",
  "variableType":"java.util.List<ReservedElasticsearchInstance>"}
"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
}
",
"membersAsMap" : {
"NextToken" : {
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "String",
"defaultValueConsumerFluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.\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 #nextToken(String)}.\n@param nextToken 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 #nextToken(String)\n",
"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.\n@param nextToken Provides an identifier to allow retrieval of paginated results.\n@return Returns a reference to this object so that method calls can be chained together.\n"",
"getterDocumentation" : "\n@see #nextToken(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": "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()}. When the { @link Consumer} completes, { @link List<ReservedElasticsearchInstance>.Builder#build()} is called immediately and its result is passed to { @link reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)}. @param reservedElasticsearchInstances a consumer that will call methods on { @link List<ReservedElasticsearchInstance>.Builder}\n@return Returns a reference to this object so that method calls can be chained together. @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.\n@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 [Consumer] completes, [ReservedElasticsearchInstance.Builder#build()] is called immediately and its result is passed to [ReservedElasticsearchInstance.Builder#build()].

@throws IllegalArgumentException if the passed object is a null reference."
    ,
    "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.

@throws IllegalArgumentException if the passed object is a null reference."
    ,
    "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" : "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.\n\n@\n\n@param member The new value for the Member property for this object.\n",
"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,
"setterDocumentation": "<p>List of reserved Elasticsearch instances.</p>
@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>
  @param reservedElasticsearchInstances List of reserved Elasticsearch instances.
  
  @return Returns a reference to this object so that method calls can be chained together.
      @see #nextToken(String)"
}
,"xmlNameSpaceUri": null
}
,"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getNextToken",
    "beanStyleSetterMethodName": "setNextToken",
    "c2jName": "NextToken",
    "c2jShape": "String",
    "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. 
      @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
}
"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",
"defaultValueFluentSetterDocumentation" : "<p>List of reserved Elasticsearch instances.</p>
This is a convenience that creates an instance of the { @link List<ReservedElasticsearchInstance>#builder() } when the { @link Consumer } completes, { @link List<ReservedElasticsearchInstance>#builder#build() } is called immediately and its result is passed to { @link List<ReservedElasticsearchInstances(List<ReservedElasticsearchInstance>)) }. @param reservedElasticsearchInstances a consumer that will call methods on { @link List<ReservedElasticsearchInstance>#builder } @return Returns a reference to this object so that method calls can be chained together.@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.@param reservedElasticsearchInstances List of reserved Elasticsearch instances.@return Returns a reference to this object so that method calls can be chained together.@inheritDoc",
"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" : {
"simpleType" : "String",
"variableSetterType" : "String"
"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",
  "ListModel" : {
    "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,Builder) }.
  @param member a consumer that will call
  methods on { @link ReservedElasticsearchInstance.Builder}.
  @return Returns a reference to this object so that
  method calls 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. 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,Builder) }.
  @param member a consumer that will call
  methods on { @link ReservedElasticsearchInstance.Builder}.
  @return Returns a reference to this object so that
  method calls can be chained together.
  @see #member(ReservedElasticsearchInstance)",
  "getterDocumentation" : "Returns 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" : "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" : "",
"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" : "<p>List of reserved Elasticsearch instances.</p>@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
}
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DescribeReservedElasticsearchInstancesResponse",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "DescribeReservedElasticsearchInstancesResponse",
  "variableName": "describeReservedElasticsearchInstancesResponse",
  "variableType": "DescribeReservedElasticsearchInstancesResponse",
  "documentation": null,
  "simpleType": "DescribeReservedElasticsearchInstancesResponse",
  "variableSetterType": "DescribeReservedElasticsearchInstancesResponse"
},
"wrapper": false
},
"DisabledOperationException": {
  "c2jName": "DisabledOperationException",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.",
  "endpointDiscovery": null,
  "enums": null,
  "errorCode": "DisabledOperationException",
  "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": "DisabledOperationException",
  "simpleMethod": false,
  "unmarshaller": null,
  "wrapper": false
}
"variable" : {
    "variableDeclarationType" : "DisabledOperationException",
    "variableName" : "disabledOperationException",
    "variableType" : "DisabledOperationException",
    "documentation" : null,
    "simpleType" : "DisabledOperationException",
    "variableSetterType" : "DisabledOperationException"
},
"wrapper" : false,
"DomainInfo" : {
    "c2jName" : "DomainInfo",
    "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" : 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#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> 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>.\n@param domainName Specifies the <code>DomainName</code>.\n@return Returns a reference to this object so that method calls can be chained together.\n</p>\n
@method setDomainName\n", "fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p> Specifies the <code>DomainName</code>.\n@return Specifies the <code>DomainName</code>.\n\n@method getDomainName\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> Specifies the <code>DomainName</code>.\n@param domainName Specifies the <code>DomainName</code>.\n\n@method setDomainName\n",
"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",
    "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#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called
immediately and its result is passed to {@link String.Builder#build()} is called
immediately and its result is passed to {@link String.Builder#build()}. 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,
  "fluuentEnumGetterMethodName": null,
  "fluuentEnumSetterMethodName": null,
  "fluuentGetterMethodName": "domainName",
  "fluuentSetterDocumentation": "<p> Specifies the <code>DomainName</code>.</p>
Specifies the <code>DomainName</code>.

@return Returns a reference to this object so that method calls can be
chained together.

@see #domainName(String)",
  "fluuentSetterMethodName": "domainName",
  "getterDocumentation": "<p> Specifies the <code>DomainName</code>.</p>
@return Specifies the <code>DomainName</code>. Returns a reference to this object so that method calls can be
chained together.

@see #domainName(String)",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
    "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
]"
"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>.

@param domainName Specifies the <code>DomainName</code>.

@returns null
</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>.

@returns null
</p>
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
"nonStreamingMembers" : [ { 
  "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)}.<p>@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.<p>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>.<p>@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>Specifies the <code>DomainName</code>.</p>
@return Specifies the <code>DomainName</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" : "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,

"requestSignerAware" : false,

"requestSignerClassFqcn" : 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"

}
Options to enable, disable, and specify the properties of EBS storage volumes. For more information, see [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs).  

Specifies whether EBS-based storage is enabled. 

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, `#ebsEnabled(Boolean)` is called immediately and its result is passed to `#ebsEnabled(Boolean)`.

Returns a reference to this object so that method calls can be chained together.

Specifies whether EBS-based storage is enabled.
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsEnabled",
"fluentSetterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.<br/>
@param ebsEnabled Specifies whether EBS-based storage is enabled.<br/>
@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.<br/>
@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",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.<br/>
@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" : "<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>\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 #volumeTypeAsString(String) \}.\n\n@param volumeType 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 #volumeType(String)",
"deprecated" : false,
"documentation" : "<p> Specifies the volume type for EBS-based storage. </p>\n"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>\n@\n\n@param volumeType Specifies the volume type for EBS-based storage.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see VolumeType\n",
"fluentSetterMethodName" : "volumeType",
"getterDocumentation" : "<p> Specifies the volume type for EBS-based storage. </p>\n"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
Specifies the volume type for EBS-based storage. @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>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getVolumeSize",
"beanStyleSetterMethodName" : "setVolumeSize",

"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VolumeType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VolumeType",
"uri" : false}
"c2jName" : "VolumeSize",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p> Integer to specify the size of an EBS volume.</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()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #volumeSize(Integer)}.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #volumeSize(Integer)",
"deprecated" : 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.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #volumeSize(Integer)",
"getDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
@return Integer to specify the size of an EBS volume.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #volumeSize(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" : "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
},
"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 #iops(Integer).@n@return Returns a reference to this object so that method calls can be chained together.@n@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
@param iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "iops",
"getterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).

@return 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",
"sensitive" : false,

"setterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).

@return Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).

"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
},
"membersAsMap" : {
    "EBSEnabled" : {
        "beanStyleGetterMethodName" : "getEbsEnabled",
        "beanStyleSetterMethodName" : "setEbsEnabled",
        "c2jName" : "EBSEnabled",
        "c2jShape" : "Boolean",
        "defaultConsumerFluentSetterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</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
#ebsEnabled(Boolean)}.\n@see #ebsEnabled(Boolean)",
        "deprecated" : false,
        "documentation" : "<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>
@see #ebsEnabled(Boolean)",
        "fluentSetterMethodName" : "ebsEnabled",
        "getterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>
@see #ebsEnabled(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": "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>
@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": "<p>Specifies whether EBS-based storage is enabled.</p>",
  "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)}.

When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #iops(Integer)}.

@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)"

"getterDocumentation" : "Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).

@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,
  "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" : "<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>
  "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>
    "param" iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD)."
  }
},
"xmlNameSpaceUri" : null,
"VolumeSize" : {
  "beanStyleGetterMethodName" : "getVolumeSize",
  "beanStyleSetterMethodName" : "setVolumeSize",
  "c2jName" : "VolumeSize",
  "c2jShape" : "IntegerClass",
  "defaultConsumerFluentSetterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
   "@param volumeSize a consumer that will call methods on {@link Integer.Builder} avoids 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 #volumeSize(Integer)}. 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,
  "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.\n   "@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>
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 {@link String.Builder#build()} is called immediately and its result is passed to {@link #volumeTypeAsString(String)}.{@link @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.@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>
@see VolumeType
@parameter 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,
Specifies the volume type for EBS-based storage.

@param volumeType

@see VolumeType
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</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
#ebsEnabled(Boolean)}.\n@param ebsEnabled 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 #ebsEnabled(Boolean)",
"deprecated" : false,
"documentation" : "<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 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>
@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,
"setterDocumentation" : "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" : "Specifies whether EBS-based storage is enabled.",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getVolumeTypeAsString",
"beanStyleSetterMethodName" : "setVolumeType",
"c2jName" : "VolumeType",
"c2jShape" : "VolumeType",
"defaultConsumerFluentSetterDocumentation" : "Specifies the volume type for EBS-based storage.",
"deprecated" : false,
"documentation" : "Specifies the volume type for EBS-based storage.",
"endpointDiscoveryId" : false,
"enumType" : "VolumeType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "volumeType",
"fluentEnumSetterMethodName" : "volumeType",
"fluentGetterMethodName" : "volumeTypeAsString",
"@return" : "Returns a reference to this object so that method calls can be chained together."}
Specifies the volume type for EBS-based storage.

```
@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
```

```
If the service returns an enum value that is not available in the current SDK version, "VolumeType#UNKNOWN_TO_SDK_VERSION" will return. The raw value returned by the service is available from "VolumeTypeAsString".

```

```
Specifies the volume type for EBS-based storage.

```

```
```

```
```
"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()\}.\nWhen the \{@link Consumer\} completes, \{@link Integer.Builder#build()\} is called immediately and its result is passed to \{@link #volumeSize(Integer)\}.\n@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,
"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.\n@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.\n@see #volumeSize",
"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,
"marshallLocationName" : "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
},

"beanStyleGetterMethodName" : "getIops",
"beanStyleSetterMethodName" : "setIops",
"c2jName" : "Iops",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume
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 `#iops(Integer)`. **@param iops** 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** `#iops(Integer)`
"name" : "Iops",
"sensitive" : false,
"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,
      
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Specifies the EBS options for the specified Elasticsearch domain.

@defgroup EBSOptions

**EBSOptions**

Specifies the EBS options for the specified Elasticsearch domain.
"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()}. 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)}.

@see #status(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>
@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."

"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.";

"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. 

@<b>param status</b> Specifies the status of the EBS options for the specified Elasticsearch domain. 

@<b>setterMethod</b>Name" : "setStatus",
@<b>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. 

@<b>param options</b> Specifies the status of the EBS options for the specified Elasticsearch domain. 

@<b>getterMethod</b>Name" : "getOptions",
@<b>setterMethod</b>Name" : "setOptions",
@<b>c2jName" : "Options",
@<b>c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. 

This is a convenience that creates an instance of the <a> EBSOptions.Builder </a> avoiding the need to create one manually via <a> EBSOptions.Builder#build() </a>. 

When the <a> Consumer </a> completes, <a> EBSOptions.Builder#build() </a> is called immediately and its result is passed to <a> EBSOptions.Builder#build() </a>. 

@<b>param options</b> a consumer that will call methods on <a> EBSOptions.Builder </a>

@<b>return</b> Returns a reference to this object so that 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
},
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"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.
@return 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",
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  "documentation" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
  },
  "xmlNameSpaceUri" : null
},
"Status" : {
  "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#build() }. When the { @link Consumer } completes, { @link OptionStatus.Builder#build() } is called immediately and its result is passed to { @link OptionStatus.Status } which 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" : null,
  "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.",
  "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.",
  "getterModel" : {
    "returnType" : "OptionStatus",}
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
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  "greedy" : false,
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  "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>
"simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
"xmlNameSpaceUri" : null

"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "EBSOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.\nThis is a convenience that creates an instance of the @link EBSOptions.Builder avoiding the need to create one manually via @link EBSOptions#builder().\nWhen the @link Consumer completes, @link EBSOptions.Builder#build() is called immediately and its result is passed to @link #options(EBSOptions)).\n@param options a consumer that will call methods on @link EBSOptions.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(EBSOptions)",
    "deprecated" : false,
    "documentation" : "<p> Specifies the EBS options 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 EBS options for the specified Elasticsearch domain.\n</p>\n@param options Specifies the EBS options 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 EBS options for the specified Elasticsearch domain.\n</p>\n@return Specifies the EBS options for the specified Elasticsearch domain.\n",
    "getterModel" : {
        "returnType" : "EBSOptions",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
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        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "Options",
        "queryString" : false,
        "statusCode" : false,
},
"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
},

"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()\}. When the \{@link Consumer\} completes, \{@link OptionStatus.Builder#build()\} is called immediately and its result is passed to \{@link OptionStatus#status(OptionStatus)\}. @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. @see #status(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>
@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.
",
"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.
",
"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 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"
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"simple" : false,
"timestampFormat" : null,
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"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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"xmlNameSpaceUri" : null
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"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "EBSOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "EBSOptionsStatus",
"variableName" : "ebsOptionsStatus",
"variableType" : "EBSOptionsStatus",
"documentation" : null,
"simpleType" : "EBSOptionsStatus",
"variableSetterType" : "EBSOptionsStatus"
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"wrapper" : false
},
"ESPartitionInstanceType" : {
"c2jName" : "ESPartitionInstanceType",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "",
"endpointDiscovery" : null,
"enums" : [ {
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  "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"
}, {
  "name" : "M4_4_XLARGE_ELASTICSEARCH",
  "value" : "m4.4xlarge.elasticsearch"
}, {
  "name" : "M4_10_XLARGE_ELASTICSEARCH",
  "value" : "m4.10xlarge.elasticsearch"
}, {
  "name" : "T2_MICRO_ELASTICSEARCH",
  "value" : "t2.micro.elasticsearch"
}, {
  "name" : "T2_SMALL_ELASTICSEARCH",
  "value" : "t2.small.elasticsearch"
}, {
  "name" : "T2_MEDIUM_ELASTICSEARCH",
  "value" : "t2.medium.elasticsearch"
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  "value" : "r3.large.elasticsearch"
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  "name" : "R3_XLARGE_ELASTICSEARCH",
  "value" : "r3.xlarge.elasticsearch"
}, {
  "name" : "R3_2_XLARGE_ELASTICSEARCH",
  "value" : "r3.2xlarge.elasticsearch"
}];
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"value": "r3.8xlarge.elasticsearch"
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"value": "i2.xlarge.elasticsearch"
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"name": "I2_2_XLARGE_ELASTICSEARCH",
"value": "i2.2xlarge.elasticsearch"
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"name": "D2_XLARGE_ELASTICSEARCH",
"value": "d2.xlarge.elasticsearch"
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"name": "D2_2_XLARGE_ELASTICSEARCH",
"value": "d2.2xlarge.elasticsearch"
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"name": "D2_4_XLARGE_ELASTICSEARCH",
"value": "d2.4xlarge.elasticsearch"
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"name": "D2_8_XLARGE_ELASTICSEARCH",
"value": "d2.8xlarge.elasticsearch"
},

"name": "C4_LARGE_ELASTICSEARCH",
"value": "c4.large.elasticsearch"
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"name": "C4_XLARGE_ELASTICSEARCH",
"value": "c4.xlarge.elasticsearch"
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"name": "C4_2_XLARGE_ELASTICSEARCH",
"value": "c4.2xlarge.elasticsearch"
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"name": "C4_4_XLARGE_ELASTICSEARCH",
"value": "c4.4xlarge.elasticsearch"
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"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"
},

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}
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"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_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,
  "marshaller" : null,
  "members" : [
    "beanStyleGetterMethodName" : "getInstanceTypeAsString",
    "beanStyleSetterMethodName" : "setInstanceType",
    "c2jName" : "InstanceType",
    "c2jShape" : "ESPartitionInstanceType",
    "defaultConsumerFluentSetterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</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)}.\n
@deprecated

@nothrows

@since 4.0.0

@see #instanceType(String)

@parameter instanceType 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
@throws

@see #instanceType(String)\n
@returns a reference to this object so that method calls can be chained together.\n
@throws

@since 4.0.0

@see #instanceType(String)
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "instanceType",
"fluentEnumSetterMethodName" : "instanceType",
"fluentGetterMethodName" : "instanceTypeAsString",
"fluentSetterDocumentation" : "The instance type for an Elasticsearch cluster.\n\n@see ESPartitionInstanceType\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see ESPartitionInstanceType",
"fluentSetterMethodName" : "instanceType",
"getterDocumentation" : "The instance type for an Elasticsearch cluster.\n\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\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" : "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" : "The instance type for an Elasticsearch cluster.\n\n@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": "The instance type for an Elasticsearch cluster.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getInstanceCount",
"beanStyleSetterMethodName": "setInstanceCount",
"c2jName": "InstanceCount",
"c2jShape": "IntegerClass",
"defaultConsumerFluentSetterDocumentation": "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, \{@link Integer.Builder#build()\} is called immediately and its result is passed to \{@link #instanceCount(Integer)\}.\n@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.\n@see #instanceCount(Integer)\n@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.\n@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,
  "unmarshalLocationName" : "InstanceCount",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "InstanceCount",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},

"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"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getDedicatedMasterEnabled",
"beanStyleSetterMethodName" : "setDedicatedMasterEnabled",
"c2jName" : "DedicatedMasterEnabled",
"c2jShape" : "Boolean",
"defaultValueConsumerFluentSetterDocumentation" : "<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)}.<br>

@see #dedicatedMasterEnabled(Boolean)
@deprecated : false,
"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.</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.

@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.
@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.

@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": {
  "additionalMarshallingPath": null,
  "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": "<p>A boolean value to indicate whether a dedicated master node is enabled. See &lt;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.

@<param name="dedicatedMasterEnabled" type="boolean" description="A boolean value to indicate whether a dedicated master node is enabled."

"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 [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"eventNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getZoneAwarenessEnabled",
"beanStyleSetterMethodName" : "setZoneAwarenessEnabled",
"c2jName" : "ZoneAwarenessEnabled",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "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](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness) 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)]:

```java
@returns Returns a reference to this object so that method calls can be chained together.

@see ZoneAwarenessEnabled(Boolean)
```
"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,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "zoneAwarenessEnabled",
"fluentSetterDocumentation" : "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,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "zoneAwarenessEnabled",
"fluentSetterDocumentation" : "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,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "zoneAwarenessEnabled",
"fluentSetterDocumentation" : "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,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "zoneAwarenessEnabled",
"fluentSetterDocumentation" : "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,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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": "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",
"simple": true,
"timestampFormat": null,
"variable": {
  "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.&lt;/p&gt;&lt;p&gt;\n@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" : "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.",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getDedicatedMasterTypeAsString",
"beanStyleSetterMethodName" : "setDedicatedMasterType",
"c2jName" : "DedicatedMasterType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "The instance type for a dedicated master node. 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 #dedicatedMasterTypeAsString(String)).

@see #dedicatedMasterType(String)",
"deprecated" : false,
"documentation" : "The instance type for a dedicated master node.",
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "dedicatedMasterType",
"fluentEnumSetterMethodName" : "dedicatedMasterType",
"fluentGetterMethodName" : "dedicatedMasterTypeAsString",
"fluentSetterDocumentation" : "The instance type for a dedicated master node.

@return Returns a reference to this object so that method calls can be chained together.

@see ESPartitionInstanceType",
"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,
Total number of dedicated master nodes, active and on standby, for the cluster.

This is a convenience that creates an instance of the `Integer.Builder` avoiding the need to create one manually via `Integer.Builder.builder()`. When the `Consumer` completes, `Integer.Builder.build()` is called immediately and its result is passed to `#dedicatedMasterCount(Integer)`.

When the `Consumer` completes, `Integer.Builder#build()` is called immediately and its result is passed to `#dedicatedMasterCount(Integer)`.

@see #dedicatedMasterCount(Integer)
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "DedicatedMasterCount",
"sensitive" : false,
"setterDocumentation" : "Total number of dedicated master nodes, active and on standby, for the cluster.
@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,
  "complexType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "dedicatedMasterCount",
  "variableType" : "Integer",
  "documentation" : "Total number of dedicated master nodes, active and on standby, for the 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, \{ @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 \}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #dedicatedMasterCount(Integer)",
"deprecated" : false,
"documentation" : "Total number of dedicated master nodes, active and on standby, for the cluster.

@deprecated\n@see #dedicatedMasterCount(Integer)"}
"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.<p>@return Returns a reference to this object so that method calls can be chained together.
</p>",
"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",
"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" : 
    "Total number of dedicated master nodes, active and on standby, for the cluster."
},
"xmlNameSpaceUri" : null
},
"DedicatedMasterEnabled" : {
  "beanStyleGetterMethodName" : "getDedicatedMasterEnabled",
  "beanStyleSetterMethodName" : "setDedicatedMasterEnabled",
  "c2jName" : "DedicatedMasterEnabled",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : 
    "A boolean value to indicate whether a dedicated master node is enabled. See "
    "&lt;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    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    When the \{
    @link Boolean.Consumer\} completes, \{
    @link Boolean.Builder#build()\} is called immediately and its result is passed to \{
    @link
    #dedicatedMasterEnabled(Boolean)\}\n    @param dedicatedMasterEnabled\n    A consumer that will call methods on \{
    @link Boolean.Builder\}\n    @return\n    Returns a reference to this object so that method calls can be chained together.\n    @see #dedicatedMasterEnabled(Boolean)",
  "deprecated" : false,
  "documentation" : "A boolean value to indicate whether a dedicated master node is enabled. See "
  "&lt;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\n  A boolean value to indicate whether a dedicated master node is enabled. See "
  "&lt;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  @return\n  Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "dedicatedMasterEnabled",
"getterDocumentation" : "<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>
@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" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : 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",
"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": "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": "The instance type for a dedicated master node.
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 DedicatedMasterTypeAsString(String)}.
@param dedicatedMasterType 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 #dedicatedMasterType(String)",
"deprecated": false,
"documentation": "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
"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 #dedicatedMasterType} will return { @link
"xmlNameSpaceUri": null
},
ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from [@link #dedicatedMasterTypeAsString](#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",
"敏感" : 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" : "The instance type for a dedicated master node.\n",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"InstanceCount" : {
"beanStyleGetterMethodName" : "getInstanceCount",
"beanStyleSetterMethodName" : "setInstanceCount",
"c2jName" : "InstanceCount",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "The number of instances in the specified domain cluster.\n",
"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.\n",
"fluentSetterMethodName" : "instanceCount",
"getterDocumentation" : "The number of instances in the specified domain cluster.\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" : "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"
},
"xmlNameSpaceUri" : null
},
"InstanceType" : {
  "beanStyleGetterMethodName" : "getInstanceTypeAsString",
  "beanStyleSetterMethodName" : "setInstanceType",
  "c2jName" : "InstanceType",
  "c2jShape" : "ESPartitionInstanceType",
  "defaultConsumerFluentSetterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</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))}
@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@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@return The instance type for an Elasticsearch cluster.
@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" : "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.\n@param instanceType The instance type for an Elasticsearch cluster.\n@see ESPartitionInstanceType",
"setterMethodName" : "setInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for an Elasticsearch cluster.\n@see ESPartitionInstanceType\n</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for an Elasticsearch cluster.\n</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ZoneAwarenessEnabled" : {
"beanStyleGetterMethodName" : "getZoneAwarenessEnabled",
"beanStyleSetterMethodName" : "setZoneAwarenessEnabled",
"c2jName" : "ZoneAwarenessEnabled",
"c2jShape" : "Boolean",
"defaultValueSetterDocumentation" : "<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@see @param zoneAwarenessEnabled 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 #zoneAwarenessEnabled(Boolean)",
  "deprecated" : false,
  "documentation" : "<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;",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "timestampFormat" : null,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "zoneAwarenessEnabled",
"fluentSetterDocumentation": "<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;@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.&lt;/a&gt; for more information.&lt;/p&gt;&lt;p&gt;\n@returns 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 &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;\n@returns 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;/a&gt; for more information.",
"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": "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 &lt;a
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.

```json
.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": "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.",
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
}
```

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 a reference to this object so that method calls can be chained together.

```java
@link #instanceType(String)
```
"fluentGetterMethodName" : "instanceTypeAsString",
"fluentSetterDocumentation" : "<p>The instance type for an Elasticsearch cluster.
@see ESPartitionInstanceType</p>
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType",
"fluentSetterMethodName" : "instanceType",
"getterDocumentation" : "<p>The instance type for an Elasticsearch cluster.
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].</p>
@return The instance type for an Elasticsearch cluster.
@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" : "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.
@see ESPartitionInstanceType</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" : "The instance type for an Elasticsearch cluster.",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsNamespaceUri" : null
},
"beanStyleGetterMethodName" : "getInstanceCount",
"beanStyleSetterMethodName" : "setInstanceCount",
"c2jName" : "InstanceCount",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "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, \{ @link Integer.Builder\#build\} is called immediately and its result is passed to \{ @link InstanceCount\#instanceCount\} a consumer that will call methods on \{ @link Integer.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@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.\n\n@param instanceCount The number of instances in the specified domain cluster.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #instanceCount(Integer)",
"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",
"isBinary" : 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"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getDedicatedMasterEnabled",
  "beanStyleSetterMethodName" : "setDedicatedMasterEnabled",
  "setterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@param
InstanceCount The number of instances in the specified domain cluster.",
  "setterMethodName" : "setDedicatedMasterEnabled",
  "setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "dedicatedMasterEnabled",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
  },
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "dedicatedMasterEnabled",
    "variableType" : "Integer",
    "documentation" : "<p>The number of instances in the specified domain cluster.</p>",
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
  },
  "xmlNameSpaceUri" : null
}
"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)}.

@deprecated

Getters:

"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 <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>

Getters:

"fluentSetterMethodName" : "dedicatedMasterEnabled",
"getterDocumentation" : "<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>

Getters:

"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": "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": "<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)], a parameter that will call methods on [@link Boolean.Builder].
@returns Returns a reference to this object so that method calls can be chained together.
@see #zoneAwarenessEnabled(Boolean)",
"deprecated" : false,
"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>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"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.
@see #zoneAwarenessEnabled(Boolean)",
"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.
@see #zoneAwarenessEnabled(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" : "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.\n</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.\n",
"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.\n</p>"
"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()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to
{@link #dedicatedMasterTypeAsString(String)}.<p>@param dedicatedMasterType a consumer that will call methods on
{@link String.Builder}<p>@return Returns a reference to this object so that method calls can be chained together.<p>@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
@see DedicatedMasterType
@return Returns a reference to this object so that method calls can be chained together.<p>@see ESPartitionInstanceType",
"fluentSetterMethodName" : "dedicatedMasterType",
"getterDocumentation" : "<p>The instance type for a dedicated master node.</p>
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}.<p>@return The instance type for a dedicated master node.<p>@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" : "The instance type for a dedicated master node.

@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" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getDedicatedMasterCount",
"beanStyleSetterMethodName" : "setDedicatedMasterCount",
"c2jName" : "DedicatedMasterCount",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "Total number of dedicated master nodes, active and on standby, for the cluster.

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 [DedicatedMasterCount(Integer)].

@param dedicatedMasterCount 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
//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."
the cluster.

"setterMethodName" : "setDedicatedMasterCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "dedicatedMasterCount",
  "variableType" : "Integer",
  "documentation" : null,
  "complexType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "dedicatedMasterCount",
  "variableType" : "Integer",
  "documentation" : "Total number of dedicated master nodes, active and on standby, for the cluster.",
  "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",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. 
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 #options(ElasticsearchClusterConfig) }\n\n@see #options(ElasticsearchClusterConfig)",
  "deprecated" : false,
  "endpointDiscoveryId" : false,
  "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\n@param options Specifies the cluster configuration for the specified Elasticsearch domain. \n\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. </p>\n\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",
"simple": false,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "ElasticsearchClusterConfig",
    "variableName": "options",
    "variableType": "ElasticsearchClusterConfig",
    "documentation": null,
    "simpleType": "ElasticsearchClusterConfig",
    "variableSetterType": "ElasticsearchClusterConfig"
},
"setterDocumentation": "<p>Specifies the cluster configuration for the specified Elasticsearch domain.</p>\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"
},
"xmlNameSpaceUri": null
Specifies the status of the configuration for the specified Elasticsearch domain.

When the Consumer completes, OptionStatus.Builder#build() is called immediately and its result is passed to OptionStatus.

@see #status(OptionStatus)

To specify the status of the configuration for the specified Elasticsearch domain, the following consumer is used:

```java
public static void main(String[] args) {
    OptionStatus optionStatus = OptionStatus.builder()
        .status(???)
        .build();
}
```

The status is set using the fluent setter method:

```java
public void status(OptionStatus status) {
    this.status = status;
}
```

Additionally, the status is also accessible via the fluent getter method:

```java
public OptionStatus status() {
    return this.status;
}
```

The documentation for the fluent setter method is:

```java
@FluentSetter
@Documentation("Specifies the status of the configuration for the specified Elasticsearch domain.

When the Consumer completes, OptionStatus.Builder#build() is called immediately and its result is passed to OptionStatus.

@see #status(OptionStatus)"
```

The documentation for the fluent getter method is:

```java
@FluentGetter
@Documentation("Specifies the status of the configuration for the specified Elasticsearch domain.

@see #status(OptionStatus)"
```

The fluent documentation for the fluent setter method is:

```java
@FluentSetterDocumentation
@Documentation("Specifies the status of the configuration for the specified Elasticsearch domain.

When the Consumer completes, OptionStatus.Builder#build() is called immediately and its result is passed to OptionStatus.

@see #status(OptionStatus)"
```

The fluent documentation for the fluent getter method is:

```java
@FluentGetterDocumentation
@Documentation("Specifies the status of the configuration for the specified Elasticsearch domain.

@see #status(OptionStatus)"
```

The documentation for the fluent enum getter method is:

```java
@FluentEnumGetter
@Documentation("Specifies the status of the configuration for the specified Elasticsearch domain.

@see #status(OptionStatus)"
```

The documentation for the fluent enum setter method is:

```java
@FluentEnumSetter
@Documentation("Specifies the status of the configuration for the specified Elasticsearch domain.

@see #status(OptionStatus)"
```
"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.
    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 #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)",
    "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" : "options",
"fluentSetterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. \n</p> @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
}
,"Status" : {
 "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()}. 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)
\n@deprecated"
,"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",
 "fluentSetterMethodName" : "status",
 "fluentSetterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. </p>

@see #status(OptionStatus)
@deprecated"
,"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.  
  @param status Specifies the status of the configuration 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 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.</p>
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() completes, the ElasticsearchClusterConfig.Builder#build() is called immediately and its result is passed to @link #options(ElasticsearchClusterConfig). Returns a reference to this object so that method calls can be chained together.
@see #options(ElasticsearchClusterConfig)
",
    "deprecated": false,
    "documentation": "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "options",
    "fluentSetterDocumentation": "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>
@param options Specifies the cluster configuration 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 cluster configuration for the specified Elasticsearch domain.</p>
@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,
      "httpMethod": "GET",
      "httpResponseMessage": null,
      "httpResponseMessageCode": null,
      "httpResponseMessageDescription": null,
      "httpResponseMessageStatus": null,
      "httpResponseMessageUsage": null,
      "marshaller": null,
      "marshallerType": null,
      "marshallerUsage": null,
      "marshallerUsageCode": null,
      "marshallerUsageDescription": null,
      "marshallerUsageMessage": null,
      "marshallerUsageMessageCode": null,
      "marshallerUsageMessageDescription": null,
      "marshallerUsageMessageStatus": null,
      "marshallerUsageUsage": null,
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      "marshallerUsageUsageDescription": null,
      "marshallerUsageUsageMessage": null,
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      "marshallerUsageUsageMessageDescription": null,
      "marshallerUsageUsageMessageStatus": null,
      "marshallerUsageUsageUsage": null,
      "marshallerUsageUsageUsageCode": null,
      "marshallerUsageUsageUsageDescription": null,
      "marshallerUsageUsageUsageMessage": null,
      "marshallerUsageUsageUsageMessageCode": null,
      "marshallerUsageUsageUsageMessageDescription": null,
      "marshallerUsageUsageUsageMessageStatus": null,
      "marshallerUsageUsageUsageUsage": null,
      "marshallerUsageUsageUsageUsageCode": null,
      "marshallerUsageUsageUsageUsageDescription": null,
      "marshallerUsageUsageUsageUsageMessage": null,
      "marshallerUsageUsageUsageUsageMessageCode": null,
      "marshallerUsageUsageUsageUsa

"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 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>
  
  "setterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
  
  <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}.

  @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,
"fluentGetMethodName" : "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
],
"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,
The configuration of an Elasticsearch domain.

This is a convenience that creates an instance of the ElasticsearchVersionStatus avoiding the need to create one manually via ElasticsearchVersionStatus.Builder. When the Consumer completes, ElasticsearchVersionStatus.Builder.build() is called immediately and its result is passed to a consumer that will call methods on ElasticsearchVersionStatus.Builder.return Returns a reference to this object so that method calls can be chained together.

String of format X.Y to specify version for the Elasticsearch domain.

String of format X.Y to specify version for the Elasticsearch domain.

String of format X.Y to specify version for the Elasticsearch domain.

String of format X.Y to specify version for the Elasticsearch domain.

String of format X.Y to specify version for the Elasticsearch domain.

String of format X.Y to specify version for the Elasticsearch domain.

String of format X.Y to specify version for the Elasticsearch domain.
"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",
"setterDocumentation": "\nString of format X.Y to specify version for the Elasticsearch domain.\n\n\n@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": "\nString of format X.Y to specify version for the Elasticsearch domain.\n\n\n@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain."
,"simpleType": "ElasticsearchVersionStatus",
 "variableSetterType": "ElasticsearchVersionStatus"
 },
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getElasticsearchClusterConfig",
"beanStyleSetterMethodName": "setElasticsearchClusterConfig"
Specifies the `<code>ElasticsearchClusterConfig</code>` for the Elasticsearch domain.

When the `{@link ElasticsearchClusterConfigStatus.Builder}` completes, `{@link ElasticsearchClusterConfigStatus.Builder#build()}` is called immediately and its result is passed to `{@link #elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)}`.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)

@return Returns a reference to this object so that method calls can be chained together.

Specifies the `<code>ElasticsearchClusterConfig</code>` for the Elasticsearch domain.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)

@return Returns a reference to this object so that method calls can be chained together.

Specifies the `<code>ElasticsearchClusterConfig</code>` for the Elasticsearch domain.

@return Specifies the `<code>ElasticsearchClusterConfig</code>` for the Elasticsearch domain.

@return Specifies the `<code>ElasticsearchClusterConfig</code>` for the Elasticsearch domain.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)

@see #elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)

@see #elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)

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@see #elasticsearchClusterConfig(Elasticsh...
"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\>\n\@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" : "\<p\>Specifies the \<code\>ElasticsearchClusterConfig\</code\> for the Elasticsearch domain.\</p\>\n\@param elasticsearchClusterConfig Specifies the \<code\>ElasticsearchClusterConfig\</code\> for the Elasticsearch domain.\",
 "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.\</p\>\n\This is a convenience that creates an instance of the \link\ \link EBSOptionsStatus\@link EBSOptionsStatus.Builder\} Builder\} avoiding the need to create one manually via \link \link EBSOptionsStatus\@link EBSOptionsStatus#builder\} Builder\}\} When the \link Consumer\} completes, \link EBSOptionsStatus\@link EBSOptionsStatus.Builder\} Builder\} is called immediately and its result is passed to \link \link EBSOptions\@link EBSOptions(EBSOptionsStatus)\} EBSOptions\} a consumer that will call methods on \link EBSOptions\@link EBSOptionsStatus\} Builder\} Builder\} Returns a reference to this object so that method calls can be chained together.\n\@see \link EBSOptions\@link EBSOptionsStatus\} EBSOptionsStatus\}"
,"deprecated" : false,
"documentation" : "\<p\>Specifies the \<code\>EBSOptions\</code\> for the Elasticsearch domain.\</p\>\n\This is a convenience that creates an instance of the \link \link EBSOptionsStatus\@link EBSOptionsStatus.Builder\} Builder\} avoiding the need to create one manually via \link \link EBSOptionsStatus\@link EBSOptionsStatus#builder\} Builder\}\} When the \link Consumer\} completes, \link EBSOptionsStatus\@link EBSOptionsStatus.Builder\} Builder\} is called immediately and its result is passed to \link \link EBSOptions\@link EBSOptions(EBSOptionsStatus)\} EBSOptions\} a consumer that will call methods on \link EBSOptions\@link EBSOptionsStatus\} Builder\} Builder\} Returns a reference to this object so that method calls can be chained together.\n\@see \link EBSOptions\@link EBSOptionsStatus\} EBSOptionsStatus\}"
,"
"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><p><code>@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</code></p><p><code>@return Returns a reference to this object so that method calls can be chained together.</code>.
"fluentSetterMethodName" : "ebsOptions",
"getterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p><p><code>@return Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</code>
"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 <code>EBSOptions</code> for the Elasticsearch domain.</p><p><code>@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</code>
"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>"
},
"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 {<a href="#AccessPoliciesStatus">@link AccessPoliciesStatus</a>Builder} avoiding the need to create one manually via {<a href="#AccessPoliciesStatus">@link AccessPoliciesStatusBuilder</a>}</a>).

When the {<a href="#Consumer">@link Consumer</a>} completes, {<a href="#AccessPoliciesStatus">@link AccessPoliciesStatus.Builder</a>}</a> is called immediately and its result is passed to {<a href="#AccessPolicies">@link AccessPolicies</a>}
accessPolicies a consumer that will call methods on {<a href="#AccessPoliciesStatus">@link AccessPoliciesStatus.Builder</a>}</a柃ur @return Returns a reference to this object so that method calls can be chained together.</a>.

"deprecated": false,
"documentation": "<p>IAM access policy as a JSON-formatted string.</p>"
"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.</a>
@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>"
"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.",
"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
This is a convenience that creates an instance of the `SnapshotOptionsStatus.Builder` avoiding the need to create one manually via `SnapshotOptionsStatus.builder()` when the `Consumer` completes, `SnapshotOptionsStatus.Builder.build()` is called immediately and its result is passed to `SnapshotOptions(SnapshotOptionsStatus)`. Returns a reference to this object so that method calls can be chained together.

```java
@see #snapshotOptions(SnapshotOptionsStatus)
```

Specifies the `SnapshotOptions` for the Elasticsearch domain.

```java
@param snapshotOptions a consumer that will call methods on
@link SnapshotOptionsStatus.Builder
@returns Returns a reference to this object so that method calls can be chained together.
```

```java
@see #snapshotOptions(SnapshotOptionsStatus)
```
"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>\n@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>
  "variableSetterType" : "SnapshotOptionsStatus"
},
"xmlNameSpaceUri" : 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 [@link VPCDerivedInfoStatus.Builder] avoiding the need to create one manually via [@link VPCDerivedInfoStatus#builder()]. When the [@link Consumer] completes, [@link VPCDerivedInfoStatus.Builder#build()] is called immediately and its result is passed to [@link VpcOptions(VPCDerivedInfoStatus)].\n@param vpcOptions a consumer that will call methods on [@link VPCDerivedInfoStatus.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #vpcOptions(VPCDerivedInfoStatus)",
"deprecated" : false,
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).

```java
@param vpcOptions 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).
@return Returns a reference to this object so that method calls can be chained together.
```
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"敏感" : 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>.</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>.",
"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" : null,
  "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 Consumer} completes, { @link CognitoOptionsStatus.Builder#build()} is called immediately and its result is passed to { @link cognitoOptions(CognitoOptionsStatus)}.

@returns Returns a reference to this object so that method calls can be chained together.

@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",
"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" : "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": "<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>. 

@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": "CognitoOptionsStatus",
"variableName": "cognitoOptions",
"variableType": "CognitoOptionsStatus",
"documentation": null,
"simpleType": "CognitoOptionsStatus",
"variableSetterType": "CognitoOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "CognitoOptionsStatus",
"variableName": "cognitoOptions",
"variableType": "CognitoOptionsStatus",
"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>. 

@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>.",
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getEncryptionAtRestOptions",
"beanStyleSetterMethodName": "setEncryptionAtRestOptions",
"c2jName": "EncryptionAtRestOptions",
"c2jShape": "EncryptionAtRestOptionsStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain. 

This is a convenience that creates an instance of the {@link EncryptionAtRestOptionsStatus.Builder} avoiding the need to create one manually via {@link EncryptionAtRestOptionsStatus#builder()}. 

When the {@link Consumer} completes, {@link EncryptionAtRestOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link EncryptionAtRestOptions(EncryptionAtRestOptionsStatus)}.

A consumer that will call methods on {@link EncryptionAtRestOptionsStatus.Builder#build()} is passed to {@link EncryptionAtRestOptions(EncryptionAtRestOptionsStatus)}.

@see EncryptionAtRestOptions(EncryptionAtRestOptionsStatus)">

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"deprecated" : false,
"documentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "encryptionAtRestOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
@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.",
"fluentSetterMethodName" : "encryptionAtRestOptions",
"getterDocumentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
@return Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.",
"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.</p>
@param encryptionAtRestOptions Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.
"setterModel" : {
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>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

This is a convenience that creates an instance of the [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)].

@param nodeToNodeEncryptionOptions a consumer that will call methods on [NodeToNodeEncryptionOptionsStatus.Builder]

@returns 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>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
<code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@returns Returns a reference to this object so that method calls can be chained together.

"getterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@returns 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,
"isJsonValue" : false,
"isList" : false,
"ListModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"sensitive" : false,
"setterDocumentation" : "Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@returns 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",

This is a convenience that creates an instance of the {@link AdvancedOptionsStatus.Builder} avoiding the need to create one manually via {@link AdvancedOptionsStatus.Builder#builder()}. When the {@link Consumer} completes, {@link AdvancedOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link AdvancedOptions(AdvancedOptionsStatus)}. A consumer that will call methods on {@link AdvancedOptionsStatus.Builder#build()} is passed to {@link AdvancedOptions(AdvancedOptionsStatus)} as a reference to this object so that method calls can be chained together.

"deprecated": false,


"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "advancedOptions",


"param advancedOptions": <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createupdatedomains-configure-advanced-options" target="_blank">AdvancedOptions</a>,
"@return Returns a reference to this object so that method calls can be chained together.
",}

"@link AdvancedOptionsStatus.Builder#build()" is called immediately and its result is passed to {@link #advancedOptions(AdvancedOptionsStatus)}. A consumer that will call methods on {@link AdvancedOptionsStatus.Builder#build()} is passed to {@link AdvancedOptions(AdvancedOptionsStatus)} as 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",


"param advancedOptions": <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createupdatedomains-configure-advanced-options" target="_blank">AdvancedOptions</a>,
"@return Returns a reference to this object so that method calls can be chained together.
",}

"@link AdvancedOptionsStatus.Builder#build()" is called immediately and its result is passed to {@link #advancedOptions(AdvancedOptionsStatus)}. A consumer that will call methods on {@link AdvancedOptionsStatus.Builder#build()} is passed to {@link AdvancedOptions(AdvancedOptionsStatus)} as a reference to this object so that method calls can be chained together.

"@see #advancedOptions(AdvancedOptionsStatus)"

```
@<p>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",


```

```

"setterMethodName" : "setAdvancedOptions",

"setterModel" : {
  "variableDeclarationType" : "AdvancedOptionsStatus",
  "variableName" : "advancedOptions",
  "variableType" : "AdvancedOptionsStatus",
```
"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.",
"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": "<p>Log publishing options for the given domain.</p>",
"simpleType": "LogPublishingOptionsStatus",
"variableSetterType": "LogPublishingOptionsStatus"
}
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
"AccessPolicies" : {
"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
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)].

@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 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" : "<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.

@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.

@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.

@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.

@see #accessPolicies(AccessPoliciesStatus)

@deprecated" : false,
IAM access policy as a JSON-formatted string.

```java
setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>",
  "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
},
"AdvancedOptions": {
  "beanStyleGetterMethodName" : "getAdvancedOptions",
  "beanStyleSetterMethodName" : "setAdvancedOptions",
  "c2jName" : "AdvancedOptions",
  "c2jShape" : "AdvancedOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>AdvancedOptions</code> for the domain. See &lt;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.&lt;/p&gt;&lt;br&gt;This 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)}.

@name: AccessPolicies

"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.&lt;/p&gt;\n@param accessPolicies

**setterMethodName** : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>
  \n  @param accessPolicies

**getterMethodName** : "getAccessPolicies",
"getterModel" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>
  \n  @return accessPolicies

**setterDocumentation** : "\n
**getterDocumentation** : "\n
**xmlNameSpaceUri** : null

"uri" : false
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AccessPolicies",
"sensitive" : 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,
"CognitoOptions": {
  "beanStyleGetterMethodName": "getCognitoOptions",
  "beanStyleSetterMethodName": "setCognitoOptions",
  "c2jName": "CognitoOptions",
  "c2jShape": "CognitoOptionsStatus",
  "defaultConsumerFluentSetterDocumentation": "<p>The <code>CognitoOptions</code> for the specified
Amazon Cognito Authentication for Kibana.

This is a convenience that creates an instance of the `CognitoOptionsStatus.Builder` avoiding the need to create one manually via `CognitoOptionsStatus#builder()`. When the `CognitoOptionsStatus.Builder#build()` is called immediately and its result is passed to `cognitoOptions(CognitoOptionsStatus)`. The `CognitoOptions` for the specified domain. For more information, see Amazon Cognito Authentication for Kibana.

```
@ParameterizedBuilder

CognitoOptionsStatusBuilder build()
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptions get() {
  return cognitoOptions;
}
```

The `CognitoOptions` for the specified domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withEndpointDiscoveryId(String endpointDiscoveryId)
```

```
public CognitoOptionsStatusBuilder withEventHeader(boolean eventHeader)
```

```
public CognitoOptionsStatusBuilder withEventPayload(boolean eventPayload)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration(AmazonWebServiceAnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (anonymousUserConfiguration
   , com.amazonaws.services.elasticsearch.model.AmazonWebServiceAnonymousUserConfiguration.IAnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
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  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

The `AnonymousUserConfiguration` configuration for this domain. For more information, see Amazon Cognito Authentication for Kibana.

```java
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration
   , AnonymousUserConfigurationProvider anonymousUserConfigurationProvider)
```

Returns a reference to this object so that method calls can be chained together.

```
public CognitoOptionsStatusBuilder withAnonymousUserConfiguration
  (AnonymousUserConfiguration anonymousUserConfiguration)
```
"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" : "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" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
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)}.<br>
@see #ebsOptions(EBSOptionsStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@endcode
@endsee #ebsOptions(EBSOptionsStatus)",
"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 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,
"mapper" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.\n\n@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.\n</p>\n\n@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>
  
  @param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.\n</p>\n  
  @setterMethodName" : "setEbsOptions",
  "setterModel" : {
    "variableDeclarationType" : "EBSOptionsStatus",
    "variableName" : "ebsOptions",
    "variableType" : "EBSOptionsStatus",
    "documentation" : null,
    "simpleType" : "EBSOptionsStatus",
    "variableSetterType" : "EBSOptionsStatus"
  },
  "xmlNameSpaceUri" : null
},
"ElasticsearchClusterConfig" : {
  "beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
  "beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
  "c2jName" : "ElasticsearchClusterConfig",
  "c2jShape" : "ElasticsearchClusterConfigStatus",
  "defaultValueConsumerFluentSetterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.\n\nThis is a convenience that creates an instance of the \{\@link ElasticsearchClusterConfigStatus.Builder\} avoiding the need to create one manually via \{\@link ElasticsearchClusterConfigStatus#builder()\}.
\nWhen the \{\@link Consumer\} completes, \{\@link ElasticsearchClusterConfigStatus.Builder#build()\} is called immediately and its result is passed to \{\@link ElasticsearchClusterConfig(ElasticsearchClusterConfigStatus)\}.
\n@param elasticsearchClusterConfig a consumer that will call methods on \{\@link ElasticsearchClusterConfigStatus.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see ElasticsearchClusterConfig(ElasticsearchClusterConfigStatus)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.\n</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getterDocumentation" : "<p>Specifies the &lt;code&gt;ElasticsearchClusterConfig&lt;/code&gt; for the Elasticsearch domain.&lt;/p&gt;
@Path @param ElasticsearchClusterConfig Specifies the &lt;code&gt;ElasticsearchClusterConfig&lt;/code&gt; for the Elasticsearch domain.&lt;/p&gt;
@return Returns a reference to this object so that method calls can be chained together.",
"getterMethodName" : "elasticsearchClusterConfig",
"getters" : [ ],
"http" : { "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : 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 &lt;code&gt;ElasticsearchClusterConfig&lt;/code&gt; for the Elasticsearch domain.&lt;/p&gt;
@Path @param ElasticsearchClusterConfig Specifies the &lt;code&gt;ElasticsearchClusterConfig&lt;/code&gt; for the Elasticsearch domain.",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : { "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
"variableName" : "elasticsearchClusterConfig"},

---

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"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"
"EncryptionAtRestOptions" : {
  "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
  "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
  "c2jName" : "EncryptionAtRestOptions",
  "c2jShape" : "EncryptionAtRestOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
  <p>This is a convenience that creates an instance of the <a href="#EncryptionAtRestOptionsStatus.Builder">EncryptionAtRestOptionsStatus.Builder</a> avoiding the need to create one manually via <a href="#EncryptionAtRestOptionsStatus#builder()">EncryptionAtRestOptionsStatus#builder()</a>.</p>
  <p>When the <a href="#Consumer">Consumer</a> completes, <a href="#EncryptionAtRestOptionsStatus.Builder#build()">EncryptionAtRestOptionsStatus.Builder#build()</a> is called immediately and its result is passed to <a href="#encryptionAtRestOptions(EncryptionAtRestOptionsStatus)">encryptionAtRestOptions(EncryptionAtRestOptionsStatus)</a>.
  <p>Returns a reference to this object so that method calls can be chained together.</p>
  <p>See <a href="#encryptionAtRestOptions(EncryptionAtRestOptionsStatus)">#encryptionAtRestOptions(EncryptionAtRestOptionsStatus)</a>.
  </p>
  "deprecated" : false,
  "documentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
  <p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
  <p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
  <p>Returns a reference to this object so that method calls can be chained together.</p>
  "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 &lt;code&gt;EncryptionAtRestOptions&lt;/code&gt; for the Elasticsearch domain.&lt;/p&gt;
@param encryptionAtRestOptions Specifies the &lt;code&gt;EncryptionAtRestOptions&lt;/code&gt; 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 &lt;code&gt;EncryptionAtRestOptions&lt;/code&gt; for the Elasticsearch domain.&lt;/p&gt;",
"simpleType" : "EncryptionAtRestOptionsStatus",
"variableSetterType" : "EncryptionAtRestOptionsStatus"
},
"xmlNameSpaceUri" : null
},
"LogPublishingOptions" : {
"beanStyleGetterMethodName" : "getLogPublishingOptions",
"beanStyleSetterMethodName" : "setLogPublishingOptions",
"c2jName" : "LogPublishingOptions",
"c2jShape" : "LogPublishingOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Log publishing options for the given domain.&lt;/p&gt;
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>
@returns Log publishing options for the given domain.",
"fluentSetterMethodName" : "logPublishingOptions",
"getterDocumentation" : "<p>Log publishing options for the given domain.</p>
@returns 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"
Log publishing options for the given domain.

@para
Log publishing options for the given domain.

@para
Log publishing options for the given domain.

@para
Log publishing options for the given domain.

This is a convenience that creates an instance of the NodeToNodeEncryptionOptionsStatus Builder avoiding the need to create one manually via the NodeToNodeEncryptionOptionsStatus.Builder() method. When the Consumer completes, the NodeToNodeEncryptionOptionsStatus.Builder#build() method is called immediately and its result is passed to the NodeToNodeEncryptionOptions a consumer that will call methods on the NodeToNodeEncryptionOptionsStatus.Builder object.

@return Returns a reference to this object so that method calls can be chained together.

@see NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

@deprecated

Specifies the NodeToNodeEncryptionOptions for the Elasticsearch domain.

This is a convenience that creates an instance of the NodeToNodeEncryptionOptionsStatus Builder avoiding the need to create one manually via the NodeToNodeEncryptionOptionsStatus.Builder() method. When the Consumer completes, the NodeToNodeEncryptionOptionsStatus.Builder#build() method is called immediately and its result is passed to the NodeToNodeEncryptionOptions a consumer that will call methods on the NodeToNodeEncryptionOptionsStatus.Builder object.

@return Returns a reference to this object so that method calls can be chained together.

@see NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

@deprecated

Specifies the NodeToNodeEncryptionOptions for the Elasticsearch domain.

This is a convenience that creates an instance of the NodeToNodeEncryptionOptionsStatus Builder avoiding the need to create one manually via the NodeToNodeEncryptionOptionsStatus.Builder() method. When the Consumer completes, the NodeToNodeEncryptionOptionsStatus.Builder#build() method is called immediately and its result is passed to the NodeToNodeEncryptionOptions a consumer that will call methods on the NodeToNodeEncryptionOptionsStatus.Builder object.

@return Returns a reference to this object so that method calls can be chained together.

@see NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

@deprecated

Specifies the NodeToNodeEncryptionOptions for the Elasticsearch domain.

This is a convenience that creates an instance of the NodeToNodeEncryptionOptionsStatus Builder avoiding the need to create one manually via the NodeToNodeEncryptionOptionsStatus.Builder() method. When the Consumer completes, the NodeToNodeEncryptionOptionsStatus.Builder#build() method is called immediately and its result is passed to the NodeToNodeEncryptionOptions a consumer that will call methods on the NodeToNodeEncryptionOptionsStatus.Builder object.

@return Returns a reference to this object so that method calls can be chained together.

@see NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

@deprecated

Specifies the NodeToNodeEncryptionOptions for the Elasticsearch domain.

This is a convenience that creates an instance of the NodeToNodeEncryptionOptionsStatus Builder avoiding the need to create one manually via the NodeToNodeEncryptionOptionsStatus.Builder() method. When the Consumer completes, the NodeToNodeEncryptionOptionsStatus.Builder#build() method is called immediately and its result is passed to the NodeToNodeEncryptionOptions a consumer that will call methods on the NodeToNodeEncryptionOptionsStatus.Builder object.

@return Returns a reference to this object so that method calls can be chained together.

@see NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)
 <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.


"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>
This is a convenience that creates an instance of the { @link SnapshotOptionsStatus.Builder} avoiding the need to create one manually via { @link SnapshotOptionsStatus#builder()}.\n
When the { @link Consumer} completes, { @link SnapshotOptionsStatus.Builder#build()} is called immediately and its result is passed to { @link SnapshotOptions(SnapshotOptionsStatus)}\n\n@ See #snapshotOptions(SnapshotOptionsStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>",
"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>
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.
@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"
},
"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" : "The <code>VPCOptions</code> for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html) This is a convenience that creates an instance of the [VPCDerivedInfoStatus.Builder] avoiding the need to create one manually via [VPCDerivedInfoStatus#builder()]. When the [VPCDerivedInfoStatus.Builder#build()] is called immediately and its result is passed to [VPCDerivedInfoStatus].
  @param vpcOptions a consumer that will call methods on [VPCDerivedInfoStatus.Builder]
  @return Returns a reference to this object so that method calls can be chained together.
  @see #vpcOptions(VPCDerivedInfoStatus)"
  "deprecated" : false,
  "documentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html)"
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "vpcOptions",
  "fluentSetterMethodName" : "vpcOptions",
  "fluentSetterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html)
  @param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html)
  @return Returns a reference to this object so that method calls can be chained together.
  "getterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html)
  @return The <code>VPCOptions</code> for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html)
  "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",
"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>.</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>.",
"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>
@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>.",
  "simpleType": "VPCDerivedInfoStatus",
  "variableSetterType": "VPCDerivedInfoStatus"
"defaultConsumerFluentSetterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain.\nThis is a convenience that creates an instance of the \{\link ElasticsearchVersionStatus\} avoiding the need to create one manually via \{\link ElasticsearchVersionStatus#builder()\}.\nWhen the \{\link Consumer\} completes, \{\link ElasticsearchVersionStatus.Builder#build()\} is called immediately and its result is passed to \{\link ElasticsearchVersion(ElasticsearchVersionStatus)\}.\n\n@param elasticsearchVersion a consumer that will call methods on \{\link ElasticsearchVersionStatus.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #elasticsearchVersion(ElasticsearchVersionStatus)",

"deprecated" : false,
"documentation" : "String of format X.Y to specify version for the Elasticsearch domain.\n\n@endpointDiscoveryId" : false,
"enumType" : null,
"eventId" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain.\n\n\n@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #elasticsearchVersion(ElasticsearchVersionStatus)",

"getterModel" : {\n  "returnType" : "ElasticsearchVersionStatus",
  "documentation" : null
},
"http" : {\n  "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.\n\n@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.\n\n@returns String of format X.Y to specify version for the Elasticsearch domain.\n\n@returns a reference to this object.
\n@method getElasticsearchClusterConfig
\n@method setElasticsearchClusterConfig
\n@link ElasticsearchClusterConfigStatus.Builder\n\nThis is a convenience that creates an instance of the \n@link ElasticsearchClusterConfigStatus.Builder avoiding the need to create one manually. \n\nWhen the \n@link ElasticsearchClusterConfigStatus.Builder\nis called immediately and its result is passed to a consumer that will call methods on a consumer that will call methods on the Elasticsearch domain.\n\n@returns a reference to this object.
"setterDocumentation": "Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain."
@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": "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 {
  @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)
",
"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.
  @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,
  "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
},

"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)}. A `@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" : "<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>",
"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",
"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"
},
"XmlNodeSpaceUri" : null
},
"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
\nThis is a convenience that creates an instance of the {@link SnapshotOptionsStatus.Builder} avoiding the need to create one manually via {@link SnapshotOptionsStatus#builder()}.\n\nWhen the {@link Consumer} completes, {\link

SnapshotOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link #snapshotOptions(SnapshotOptionsStatus)}.

@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 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",
"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"
},
"xmlnsSpaceUri" : 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 {\link VPCDerivedInfoStatus.Builder} avoiding the need to create one manually via {\link VPCDerivedInfoStatus.Builder#builder()}\n\nWhen the {\link Consumer} completes, {\link VPCDerivedInfoStatus.Builder#build()} is called immediately and its result is passed to {\link VpcOptions(VPCDerivedInfoStatus)}\n@param vpcOptions a consumer that will call methods on {\link VPCDerivedInfoStatus.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@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>\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : null,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterDocumentation" : "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@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "vpcOptions",
@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>.

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",
"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 [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```
scanner::vpcOptions: {
  variableDeclarationType: "VPCDerivedInfoStatus",
  variableName: "vpcOptions",
  variableType: "VPCDerivedInfoStatus",
  documentation: "The VPCOptions 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).",
}
```

```
bean::cognitoOptions: {
  beanStyleGetterMethodName: "getCognitoOptions",
  beanStyleSetterMethodName: "setCognitoOptions",
  c2jName: "CognitoOptions",
  c2jShape: "CognitoOptionsStatus",
  defaultConsumerFluentSetterDocumentation: "The CognitoOptions 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 [CognitoOptionsStatus.Builder](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html) avoiding the need to create one manually via [CognitoOptionsStatus#builder()](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html). When the [CognitoOptionsStatus.Builder#build()](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html) is called immediately and its result is passed to [CognitoOptions(CognitoOptionsStatus)](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html) a consumer that will call methods on [CognitoOptionsStatus.Builder](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html) and return. Returns a reference to this object so that method calls can be chained together.

```
```
"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" : "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" : "<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>"
Amazon Cognito Authentication for Kibana</p>

<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>.

```java
@Param

CognitoOptions cognitoOptions

CognitoOptions cognitoOptions
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CognitoOptionsStatus cognitoOptions
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EncryptionAtRestOptionsStatus encryptionAtRestOptions
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EncryptionAtRestOptionsStatus encryptionAtRestOptions
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"fluentGetterMethodName": "encryptionAtRestOptions",
"fluentSetterDocumentation": "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.<br/>
@param encryptionAtRestOptions Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.<br/>
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName": "encryptionAtRestOptions",
"getterDocumentation": "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.<br/>
@return Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.
",
"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",
"setterDocumentation": "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.<br/>
@param encryptionAtRestOptions Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.<br/>

", "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" : "Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.",
  "simpleType" : "EncryptionAtRestOptionsStatus",
  "variableSetterType" : "EncryptionAtRestOptionsStatus"
},
"xmlNameSpaceUri" : null,
},
"beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
"c2jName" : "NodeToNodeEncryptionOptions",
"c2jShape" : "NodeToNodeEncryptionOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
This is a convenience that creates an instance of the <a href="#null">NodeToNodeEncryptionOptionsStatus.Builder</a> avoiding the need to create one manually via <a href="#null">NodeToNodeEncryptionOptionsStatus.Builder#builder()</a>. When the <a href="#null">Consumer</a> completes, <a href="#null">NodeToNodeEncryptionOptionsStatus.Builder#build()</a> is called immediately and its result is passed to <a href="#null">NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)</a>. 

@par@m nodeToNodeEncryptionOptions a consumer that will call methods on <a href="#null">NodeToNodeEncryptionOptionsStatus.Builder</a>
@par@m return Returns a reference to this object so that method calls can be chained together.
@see NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)
  "deprecated" : false,
  "documentation" : "Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
  "fluentSetterDocumentation" : "Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
@par@m nodeToNodeEncryptionOptions <a href="#null">NodeToNodeEncryptionOptions</a> Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
@par@m return Returns a reference to this object so that method calls can be chained together.
  "getterDocumentation" : "Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
  "getterModel" : {
    "returnType" : "NodeToNodeEncryptionOptionsStatus",
    "documentation" : null
  ",
  "variableSetterType" : "EncryptionAtRestOptionsStatus"
"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",
"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 &lt;code&gt;NodeToNodeEncryptionOptions&lt;/code&gt; for the Elasticsearch domain.&lt;/p&gt;
@param nodeToNodeEncryptionOptions Specifies the &lt;code&gt;NodeToNodeEncryptionOptions&lt;/code&gt; for the Elasticsearch domain."",
  "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/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.</p>This is a convenience that creates an instance of the <code>AdvancedOptionsStatus.Builder</code> avoiding the need to create one manually via <code>AdvancedOptionsStatus#builder()</code>. When the <code>AdvancedOptionsStatus.Builder#build()</code> is called immediately and its result is passed to <code>AdvancedOptions(AdvancedOptionsStatus.Builder#build())</code> a consumer that will call methods on <code>AdvancedOptionsStatus.Builder</code> is returned. A reference to this object so that method calls can be chained together.

"deprecated" : false,

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",

"fluentSetterMethodName" : "advancedOptions",
"fluentModel" : {
  "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",
  "documentation": null,
  "simpleType": "AdvancedOptionsStatus",
  "variableSetterType": "AdvancedOptionsStatus"
},
"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)}.<p>@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.",
"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" : "<p>Log publishing options for the given domain.</p>",
"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,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshalByMember" : null,
  "members" : [ {
    "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)}.
@returns a reference to this object so that method calls can be chained together.
@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,
"fluentGetterMethodName" : "domainId",
"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.
@return The unique identifier for the specified Elasticsearch domain.",
"setterMethodName" : "setDomainId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "getterDocumentation" : "<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.
  @param domainId The unique identifier for the specified Elasticsearch domain.
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  @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.
  @param domainId The unique identifier for the specified Elasticsearch domain.
"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()\}.\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@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).
 @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)
 @return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"fluentType" : null,
"fluentTypeDocumentation" : null,
"fluentTypeSetterMethodName" : null,
"payloaddocumentation" : null,
"payloadtype" : null,
"payloadtype documentation" : null,
"payloadtype SetterMethodName" : null,
"payloadtypeSetterMethodname" : null,
"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)."

"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",

"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"}
"variable.Setter.Type" : "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).
  "simpleType" : "String",
  "variable.Setter.Type" : "String",
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getArn",
  "beanStyleSetterMethodName" : "setArn",
  "c2jName" : "ARN",
  "c2jShape" : "ARN",

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 [arn(String)].

@see #arn(String)
@return Returns a reference to this object so that method calls can be chained together.
  "deprecated" : false,

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 [arn(String)].

@see #arn(String)
@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" : "arn",
  "fluentSetterMethodName" : "arn",

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 [arn(String)].

@see #arn(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": "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",


"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
},
  "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.</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 Boolean#builder()}.
\n@see #created(Boolean)",
  "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,
  "fluentGetMethodName" : "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>
\nWhen the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link Boolean#builder()}.
\n@see #created(Boolean)",
  "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,
  "fluentGetMethodName" : "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>
\nWhen the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link Boolean#builder()}.
\n@see #created(Boolean)",
  "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,
  "fluentGetMethodName" : "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>
\nWhen the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link Boolean#builder()}.
\n@see #created(Boolean)",
  "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,
  "fluentGetMethodName" : "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>
\nWhen the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link Boolean#builder()}.
\n@see #created(Boolean)",
  "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>"
Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

@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.

<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" : "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.",

"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" : "<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 #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>

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"deprecated" : false,
"documentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received
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Boolean.Builder#build()} is called immediately and its result is passed to {@link #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.";,
"getDeleted" : "deleted",
"getDeletedDocumentation" : "<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>

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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)}. @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.";,
"getDeleted" : "deleted",
"getDeletedDocumentation" : "<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>

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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)}. @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.";,
"getDeleted" : "deleted",
"getDeletedDocumentation" : "<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.
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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)}. @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.";,
"getDeleted" : "deleted",
"getDeletedDocumentation" : "<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)}. @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.";,
"getDeleted" : "deleted",
"getDeletedDocumentation" : "<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)}. @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.";,
"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,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "BOOLEAN",

"name" : "Deleted",

"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.

@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" : {
"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.

@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" : {
"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,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "BOOLEAN",

"name" : "Deleted",

"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.

@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" : {
"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,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "BOOLEAN",

"name" : "Deleted",

"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.

@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" : {
"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,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "BOOLEAN",

"name" : "Deleted",

"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.

@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" : {
"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,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "BOOLEAN",

"name" : "Deleted",

"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.

@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.<code>}</code>",
"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.\n</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 #endpoint(String)}.\n\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",
"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>
@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>
@deprecated false,
"documentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
"getterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
@return 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
},
{
  "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-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.<\p>\nThis 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()}.<\n>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;#endpoints(Map&lt;String,String&gt;)}.<\n>@param endpoints a consumer that will call methods on { @link Map&lt;String,String&gt;.Builder} \n@see #endpoints(Map&lt;String,String&gt;)",
"deprecated": false,
"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>.

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;#endpoints(Map&lt;String,String&gt;)}.
@returns Returns a reference to this object so that method calls can be chained together.<@see #endpoints(Map&lt;String,String&gt;)",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "endpoints",
"fluentSetterDocumentation": "<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>.

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;#endpoints(Map&lt;String,String&gt;)}.
@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "endpoints",
"getterDocumentation": "<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>\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.<\p>\n@returns 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&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": "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.\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\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@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" : "ServiceUrl",
"defaultValue" : "null",
"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)}. Returns a reference to this object so that method calls can be
chained together.

@defaultConsumerFluentSetterDocumentation

@see #value(String)

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

The new value for the Value property for this object.

@fluentSetterDocumentation

@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.

@getterDocumentation

@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@\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" : 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" : "A Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgygxhrhuk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

\n@\n@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgygxhrhuk5gt6j2foh4.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>",
  "complexType" : "java.util.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-h2dsd34efgyghrguk5gt6j2f0h4.us-east-1.es.amazonaws.com'</code>.</p>
  "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.</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>().\nWhen the {<link Consumer> completes, {<link Boolean.Builder.Builder#build()} is called immediately and its result is passed to {<link #processing(Boolean)\n@param processing 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 #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>",
"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",
  "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.",
"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 {<code>Boolean.Builder</code>} avoiding the need to create one manually via {<code>Boolean#builder()</code>}. When the {<code>Consumer</code>} completes, {<code>Boolean#builder()</code>} is called immediately and its result is passed to {<code>#upgradeProcessing(</code>Boolean<code>)</code>.

@see #upgradeProcessing(<code>Boolean</code>)
"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.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

The status of an Elasticsearch domain version upgrade. If Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.
"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",
"simple" : true,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "Boolean",
"variableName" : "upgradeProcessing",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
}
"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.\n</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.\n"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.\n"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. 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)].

@deprecated
@see #elasticsearchVersion(String)",
"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.

@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.

@see #elasticsearchVersion(String)",
"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
The 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#builder().

When the Consumer completes, ElasticsearchClusterConfig.Builder#build() is called immediately and its result is passed to ElasticsearchClusterConfig(ElasticsearchClusterConfig).@param elasticsearchClusterConfig a consumer that will call methods on ElasticsearchClusterConfig.

@return Returns a reference to this object so that method calls can be chained together.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfig)
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethod" : "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.
@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
},
"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",
"endpointDiscoveryId" : false,
"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
},
{ "beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>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.</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)}.

@see #ebsOptions(EBSOptions)
@return Returns a reference to this object so that method calls can be chained together.
"deprecated" : false,
@endSummary
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
@endSummary
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "elasticsearchClusterConfig",
"variableType" : "ElasticsearchClusterConfig",
"documentation" : null,
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
}
information.

@return Returns a reference to this object so that method calls can be chained together.


"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,


"setterModel" : {
"variableDeclarationType" : "EBSOptions",
"variableName" : "ebsOptions",
"setterMethodName" : "setEbsOptions",
"setterModel" : {"returnType" : "EBSOptions",
"documentation" : null}
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"sensitive" : false,


"setterModel" : {
"variableDeclarationType" : "EBSOptions",
"variableName" : "ebsOptions",
"setterMethodName" : "setEbsOptions",
"setterModel" : {"returnType" : "EBSOptions",
"documentation" : null},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"sensitive" : false,
"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><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 #accessPolicies(String)}.<br/>
@param accessPolicies 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.</p>
@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.<br/>
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "IAM access policy as a JSON-formatted string.
@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
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the SnapshotOptions</p>\nThis is a convenience that creates an instance of the <code>SnapshotOptions</code> Builder avoiding the need to create one manually via <code>SnapshotOptions#builder()</code>. When the <code>Consumer</code> completes, <code>SnapshotOptions.Builder#build()</code> is called immediately and its result is passed to <code>SnapshotOptions(SnapshotOptions)</code>. 

When the <code>Consumer</code> completes, <code>SnapshotOptions.Builder#build()</code> is called immediately and its result is passed to <code>SnapshotOptions(SnapshotOptions)</code>. 

The <code>return</code> statement returns a reference to this object so that method calls can be chained together. 

Specifies the status of the <code>SnapshotOptions</code>.

Specifies the status of the <code>SnapshotOptions</code>.

Returns a reference to this object so that method calls can be chained together.

Specifies the status of the <code>SnapshotOptions</code>.

Specifies the status of the <code>SnapshotOptions</code>.

Specifies the status of the <code>SnapshotOptions</code>.

A convenience that creates an instance of the <code>SnapshotOptions</code> Builder avoiding the need to create one manually via <code>SnapshotOptions#builder()</code>. When the <code>Consumer</code> completes, <code>SnapshotOptions.Builder#build()</code> is called immediately and its result is passed to <code>SnapshotOptions(SnapshotOptions)</code>.

The <code>return</code> statement returns a reference to this object so that method calls can be chained together.

A convenience that creates an instance of the <code>SnapshotOptions</code> Builder avoiding the need to create one manually via <code>SnapshotOptions#builder()</code>. When the <code>Consumer</code> completes, <code>SnapshotOptions.Builder#build()</code> is called immediately and its result is passed to <code>SnapshotOptions(SnapshotOptions)</code>.

The <code>return</code> statement returns a reference to this object so that method calls can be chained together.

A convenience that creates an instance of the <code>SnapshotOptions</code> Builder avoiding the need to create one manually via <code>SnapshotOptions#builder()</code>. When the <code>Consumer</code> completes, <code>SnapshotOptions.Builder#build()</code> is called immediately and its result is passed to <code>SnapshotOptions(SnapshotOptions)</code>.

The <code>return</code> statement returns a reference to this object so that method calls can be chained together.

A convenience that creates an instance of the <code>SnapshotOptions</code> Builder avoiding the need to create one manually via <code>SnapshotOptions#builder()</code>. When the <code>Consumer</code> completes, <code>SnapshotOptions.Builder#build()</code> is called immediately and its result is passed to <code>SnapshotOptions(SnapshotOptions)</code>.

The <code>return</code> statement returns a reference to this object so that method calls can be chained together.
"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></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",


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 [VPCOptions(VPCDerivedInfo)].

@see #vpcOptions(VPCDerivedInfo)",

"deprecated" : false,
"documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a
VPC Endpoints for Amazon Elasticsearch Service Domains

The `VPCOptions` 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).

```java
public VPCDerivedInfo vpcOptions() {
    return VPCDerivedInfo.builder()
        .build();
}
```

Returns a reference to this object so that method calls can be chained together.

```java
public String getVPCOptions() {
    return vpcOptions;
}
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
builder.vpcOptions(VPCOptions vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
builder.vpcOptions(vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
VPCOptions vpcOptions = builder.vpcOptions(vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
getVPCOptions();
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
setVPCOptions(VPCOptions vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
builder.vpcOptions(VPCOptions vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
builder.vpcOptions(vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
VPCOptions vpcOptions = builder.vpcOptions(vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
getVPCOptions();
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
setVPCOptions(VPCOptions vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
builder.vpcOptions(VPCOptions vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
builder.vpcOptions(vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
VPCOptions vpcOptions = builder.vpcOptions(vpcOptions);
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
getVPCOptions();
```

For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```java
setVPCOptions(VPCOptions vpcOptions);
```
"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>.<br/>
@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" : "<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>.<br/>

"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
},
"xmlNameSpaceUri" : null
},

"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>.<br/>

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}.

@see #cognitoOptions(CognitoOptions)

"deprecated" : 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"
},
"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>
  "complexType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},
"xmlnsNameSpaceUri": 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 [ @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(EncryptionAtRestOptions)].

@returns Returns a reference to this object so that
method calls can be chained together.

@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>. </p>
@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>. </p>
@return Specifies the status of the
<code>EncryptionAtRestOptions</code>.

"setterModel" : {
  "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,
<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
},
"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 to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : <p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : <p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>
@param nodeToNodeEncryptionOptions Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.
@return Returns a reference to this object so that method calls can be chained together.";
"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the status of the
<code>NodeToNodeEncryptionOptions</code>.</p>
@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",
"simple" : 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>)}. a consumer that will call methods on { @link Map<String,String>.Builder} returns a reference to this object so that method calls can be chained together. @see #advancedOptions(Map<String,String>)",

"deprecated" : false,
"documentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "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>Attempts to modify the collection returned by this method will result in an UnsupportedOperation exception.</p>
@return Specifies the status of the <code>AdvancedOptions</code>",
"getterModel" : {
    "returnType" : "java.util.Map<String,String>",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"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,
   "timestampFormat" : false,
   "variable" : {
      "variableDeclarationType" : "String",
      "variableName" : "key",
      "variableType" : "String",
      "documentation" : null,
      "simpleType" : "String",
      "variableSetterType" : "String"
   }
   };
"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"}
"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" : "",
  "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>
\n@param advancedOptions Specifies the status of the <code>AdvancedOptions</code>\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" : "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>)}. @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>)",
 "deprecated" : false,
 "documentation" : "<p>Log publishing options for the given domain.</p>",
 "enumType" : null,
 "endpointDiscoveryId" : false,
 "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.
",
 "fluentSetterMethodName" : "logPublishingOptionsWithStrings",
 "getterDocumentation" : "<p>Log publishing options for the given domain.</p>
@throws UnsupportedOperationException
@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
 "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 \n{@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@see key\n\npublic object key(String key)\n\n\n\n@see LogType\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,  
"payload": false,  
"payload": false,  
"fluentEnumGetterMethodName": "key",  
"fluentEnumSetterMethodName": "key",  
"fluentGetterMethodName": "keyAsString",  
"fluentSetterDocumentation": "Sets the value of 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.

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, get(key) will return LogType#UNKNOWN_TO_SDK_VERSION. The raw value returned by the service is available from get(keyAsString).

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.

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. The new value for 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,
"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": "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
},

"beanStyleGetterMethodName": "getServiceSoftwareOptions",
"beanStyleSetterMethodName": "setServiceSoftwareOptions",
"c2jName": "ServiceSoftwareOptions",
"c2jShape": "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation": "<p>The current status of the Elasticsearch domain's service software.\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)}{@link param 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.@see #serviceSoftwareOptions(ServiceSoftwareOptions)"",
"deprecated": false,
"documentation": "<p>The current status of the Elasticsearch domain's service software.</p>\n"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>@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."},
"fluentSetterMethodName" : "serviceSoftwareOptions",
"getterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p>
@return 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" : false,
   "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>
@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" : null,
   "simpleType" : "ServiceSoftwareOptions",
   "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "ServiceSoftwareOptions",
   "variableName" : "serviceSoftwareOptions",
   "variableType" : "ServiceSoftwareOptions",
   "documentation" : null,
   "simpleType" : "ServiceSoftwareOptions",
   "variableSetterType" : "ServiceSoftwareOptions"}
"variableName" : "serviceSoftwareOptions",
"variableType" : "ServiceSoftwareOptions",
"documentation" : "The current status of the Elasticsearch domain's service software.\</p>",
"simpleType" : "ServiceSoftwareOptions",
"variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
]
",
"membersAsMap" : {
"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.\</p>\n\nThis is a convenience that creates an instance of the \(<@link String.Builder>\) avoiding the need to create one manually via \(<@link String#builder()>\).\nWhen the \(<@link Consumer>\) completes, \(<@link String.Builder#build()>\) is called immediately and its result is passed to \(<@link #arn(String)>\).\n\n@see #arn(String)",
"deprecated" : false,
"documentation" : "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>\n\n@endparam 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.\n@endreturn 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" : "arn",
"fluentSetterMethodName" : "arn",
"fluentSetterDocumentation" : "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\n@see #arn(String)",
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" : "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" : 


"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" : "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}(). 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} that return Returns a reference to this object so that method calls can be chained together.<p>see #accessPolicies(String)",
  "deprecated" : false,
  "documentation" : "IAM access policy as a JSON-formatted string.<p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "accessPolicies",
  "fluentSetterDocumentation" : "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" : "IAM access policy as a JSON-formatted string.
  @param accessPolicies IAM access policy as a JSON-formatted string.
  @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>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
Map<String,String>\(\text{advancedOptions}(\text{Map}<String,String>)\)\}. 

\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
together. \@see \text{advancedOptions}(\text{Map}<String,String>)",

"deprecated" : false,
"documentation" : "\p>Specifies the status of the \text{AdvancedOptions}</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "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.
@see #advancedOptions(Map<String,String>)",
"getterDocumentation" : "\p>Attempts to modify the collection returned by this method will result
in an UnsupportedOperationException.\p>\@return Specifies the status of the
<code>AdvancedOptions</code></p>",

"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)}. 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" : 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. @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": "",
  "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
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 `value(String)`.

@param value 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 #value(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": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"entryType": "Map.Entry<String, String>",
"templateType": "java.util.Map<String,String>"
},
"marshallingType": "MAP",
"name": "AdvancedOptions",
"setterDocumentation": "<p>Specifies the status of the <code>AdvancedOptions</code></p>
@container>
@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>"
},
"xmlnsNameSpaceUri": 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>
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 CognitoOptionsBuilder#cognitoOptions(CognitoOptions)] a consumer that will call methods on [@link CognitoOptions.Builder] a return

@see #cognitoOptions(CognitoOptions)
@return Returns a reference to this object so that method calls can be chained together.
@see #cognitoOptions(CognitoOptions)
"deprecated": false,
"documentation": "<p>Specifies the status of the <code>AdvancedOptions</code></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>
<br/>
@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.
@see #cognitoOptions(CognitoOptions)
"getFluentSetterMethodName": "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.
@see #cognitoOptions(CognitoOptions)
"getterModel": {
"returnType": "CognitoOptions",
"documentation": null
"
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>.

```java
public void setCognitoOptions(CognitoOptions cognitoOptions) {
    this.cognitoOptions = 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>.
"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
},
"Created" : {
"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.</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 #created(Boolean)].
@ See # 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" : "<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,
"fluentGetterMethodName" : "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.
@see # created(Boolean)",
"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>
@get The domain creation status.
@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" : "<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.",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null}
"Deleted" : {
    "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>
    When the <code>@link Consumer</code> completes, <code>@link Boolean.Builder#build()</code> is called immediately and its result is passed to <code>@link #deleted(Boolean)</code>.<br>
    @param deleted a consumer that will call methods on <code>@link Boolean.Builder</code><br>
    @return Returns a reference to this object so that method calls can be chained together.<br>
    @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>
    @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.<br>
    @return Returns a reference to this object so that method calls can be chained together.",
    "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.</p>
    @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.
    @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": "Deleted",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Deleted",
"uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "Deleted",
"sensitive": false,
"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.</p>
@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": null,
  "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.
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 #domainId(String).
@param domainId 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 #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,
"fluentGetterMethodName" : "domainId",
"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.
@see #domainId(String)",
"getterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@return The unique identifier for the specified Elasticsearch domain.
@see #domainId(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" : "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" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"DomainName" : {
   "beanStyleGetterMethodName" : "getDomainName",
   "beanStyleSetterMethodName" : "setDomainName",
   "c2jName" : "DomainName",
   "c2jShape" : "DomainName",
   "defaultConsumerFluentSetterDocumentation" : "<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>
   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 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). 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). Returns 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": "<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,

"EBSOptions": {
  "beanStyleGetterMethodName": "getEbsOptions",
  "beanStyleSetterMethodName": "setEbsOptions",
  "c2jName": "EBSOptions",
  "c2jShape": "EBSOptions",
  "defaultConsumerFluentSetterDocumentation": "<p>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.</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()}.\n\nWhen the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link #ebsOptions(EBSOptions)}.\n\n@see #ebsOptions(EBSOptions)",
  "deprecated": false,
  "documentation": "<p>The <code>EBSOptions</code> for the specified domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-
Configuring EBS-based Storage for more information.

- endpointDiscoveryId: false,
- enumType: null,
- eventHeader: false,
- eventPayload: false,
- fluentEnumGetterMethodName: null,
- fluentEnumSetterMethodName: null,
- fluentGetterMethodName: "ebsOptions",
- @return Returns a reference to this object so that method calls can be chained together.

- fluentSetterMethodName: "ebsOptions",

- 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,
null, 
"marshallType": "SDK_POJO", 
"name": "EBSOptions", 

null, 
"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": "The type and number of instances in the domain cluster."

This is a convenience that creates an instance of the class avoiding the need to create one manually via builder().

When the completes, is called immediately and its result is passed to a consumer that will call methods on 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 in the domain cluster."
"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.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getDocumentation" : "<p>The type and number of instances in the domain cluster.</p>
@return The type and number of instances in the domain cluster.",
"getDocumentation" : null,
"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.
@return The type and number of instances in the domain cluster.",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchClusterConfig"}
"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.\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",
"variable SetterType" : "String"
};
"xmlNameSpaceUri" : null
},
"EncryptionAtRestOptions" : {
"beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
"beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
"c2jName" : "EncryptionAtRestOptions",
"c2jShape" : "EncryptionAtRestOptions",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the 
<code>EncryptionAtRestOptions</code></p>.
"<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(EncryptionAtRestOptions)}. 

@param encryptionAtRestOptions 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 #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>.",
"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>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EncryptionAtRestOptions",
"variableName": "encryptionAtRestOptions",
"variableType": "EncryptionAtRestOptions",
"documentation": "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"simple": false,
"timestampFormat": 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.</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 #endpoint(String)}.

@return
Returns a reference to this object so that method calls can be chained together.\n\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",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
\n@param endpoint The Elasticsearch domain endpoint that you use to submit index and search requests.
\n@return Returns a reference to this object so that method calls can be chained together. ".
"fluentSetterMethodName" : "endpoint",
"getterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
\n@return 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.

@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" : "The Elasticsearch domain endpoint that you use to submit index and search requests.",
  "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>. 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 #endpoints(Map<String,String>)}. @param endpoints 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 together.@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,
  "variableDeclarationType" : "String",
  "variableName" : "endpoint",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
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>.<br/>
@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>.<br/>
@return Returns a reference to this object so that method calls can be chained together.

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>.<br/>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

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>.
"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 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.

@see #key(String)
@getDocumentation" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.

@return The value of the Key property for this object.
@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" : "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 #value(String)}.

@param value a consumer that will call methods on {\@link String.Builder}.

@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@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@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@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."
"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" : "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>.",
"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>)}.

@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>)",
"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",
"fluentSetterMethodName" : "logPublishingOptionsWithStrings",
"getterDocumentation" : "<p>Log publishing options for the given domain.</p>
<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@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",
    "defaultValueFluentSetterDocumentation" : "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 #key(String)
  
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : "LogType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "key",
  "fluentEnumSetterMethodName" : "key",
  "fluentGetterMethodName" : "keyAsString",
  "fluentSetterMethodName" : "key",

"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

For the Key property for this object.

Parameters the Key property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

@see LogType

"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}."

@returns 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.\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
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 `value(LogPublishingOption).

@see #value(LogPublishingOption)

@returns Returns a reference to this object so that method calls can be chained together.

@see #value(LogPublishingOption)

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@see #value(LogPublishingOption)

@returns Returns a reference to this object so that method calls can be chained together.

@see #value(LogPublishingOption)

@returns Returns a reference to this object so that method calls can be chained together.
"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>Log publishing options for the given domain."\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",
"Open Source Used In MSX SD-WAN Service Pack 4.0.0  9428"}
"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#build()} 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 to this object so that method calls can be chained together.

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>
@param nodeToNodeEncryptionOptions Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the status of the
<code>NodeToNodeEncryptionOptions</code>.</p>
@param nodeToNodeEncryptionOptions 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" : "<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
},
"Processing" : {
  "beanStyleGetterMethodName" : "getProcessing",
  "beanStyleSetterMethodName" : "setProcessing",
  "c2jName" : "Processing"}
"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#builder()}. When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #processing(Boolean)}.

When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #processing(Boolean)}.

@return Returns a reference to this object so that method calls can be chained together.

@see #processing(Boolean)"

"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",

"fluentSetterMethodName" : "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>

@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.

@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,
  "marshalLocation" : "PAYLOAD",
  "marshalLocationName" : "Processing",
  "queryString" : false,
  "statusCode" : false,
  "unmarshalLocationName" : "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.",
"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" : "<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>
", 
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"ServiceSoftwareOptions" : {
  "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
  "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
  "c2jName" : "ServiceSoftwareOptions",
  "c2jShape" : "ServiceSoftwareOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</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()\}.\n
When the \{@link Consumer\} completes, \{@link ServiceSoftwareOptions.Builder#build()\} is called immediately and its result is passed to \{@link #serviceSoftwareOptions(ServiceSoftwareOptions)\}.\n
@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" : "<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>@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.",
"fluentSetterMethodName" : "serviceSoftwareOptions",
"getterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p>
@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.",
"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>@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" : null,
"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)}.

@link SnapshotOptions.Builder\n\n@link Consumer\n\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>
@link SnapshotOptions.Builder\n\n@link Consumer\n\n@see #snapshotOptions(SnapshotOptions)",
"fluentSetterMethodName" : "snapshotOptions",
"param" : {

"paramName" : null,
"paramType" : null,
"paramVariable" : null,
"paramVariableType" : null,
"paramValue" : null,
"paramVariableValue" : null,
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"paramVariableValueType" : null,
"paramVariableValueType" : null,
"paramVariableValueType" : null,
"paramVariableValueType" : null,
"paramVariableValueType" : null,
"getterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>\n@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",
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "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>
"deprecated" : false,
"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>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeProcessing",
"fluentSetterDocumentation" : 
"<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>
"getterDocumentation" : 
"<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>
"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" : "<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"
Open Source Used In MSX SD-WAN Service Pack 4.0.0

`VPCOptions`:
```
"beanStyleGetterMethodName": "getVpcOptions",
"beanStyleSetterMethodName": "setVpcOptions",
"c2jName": "VPCOptions",
"c2jShape": "VPCDerivedInfo",
"defaultConsumerFluentSetterDocumentation": "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 VPCOptions(VPCDerivedInfo)}.

When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link VPCOptions(VPCDerivedInfo)}.

@see #vpcOptions(VPCDerivedInfo)
```

"deprecated": false,

"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>.

This is a convenience that creates an instance of the {@link VPCDerivedInfo.Builder} avoiding the need to create one manually via {@link VPCDerivedInfo.Builder#build()}.

When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link VPCOptions(VPCDerivedInfo)}.

When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link VPCOptions(VPCDerivedInfo)}.

@see #vpcOptions(VPCDerivedInfo)
```

"endpointDiscoveryId": false,

"enumType": null,

"eventHeader": false,

"eventPayload": false,

"fluentEnumGetterMethodName": null,

"fluentEnumSetterMethodName": null,

"fluentGetterMethodName": "vpcOptions",

"fluentSetterMethodName": "vpcOptions",

"fluentSetterDocumentation": "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>. When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link VPCOptions(VPCDerivedInfo)}.

When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link VPCOptions(VPCDerivedInfo)}.

When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link VPCOptions(VPCDerivedInfo)}.

@see #vpcOptions(VPCDerivedInfo)
```

"getterDocumentation": "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>.

When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link VPCOptions(VPCDerivedInfo)}.

When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link VPCOptions(VPCDerivedInfo)}.

@see #vpcOptions(VPCDerivedInfo)
```

"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",
"simple" : 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>.</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>.
"setterMethodName" : "setVpcOptions",
"setterModel" : {

"variableDeclarationType" : "VPCDerivedInfo",
"variableName" : "vpcOptions",
"complexType" : "VPCDerivedInfo",
"documentation" : null,
"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
}
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "VPCDerivedInfo",
"variableName" : "vpcOptions",
"complexType" : "VPCDerivedInfo",
"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>
@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",
"complexType" : "VPCDerivedInfo",
"documentation" : null,
"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
}
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "VPCDerivedInfo",
"variableName" : "vpcOptions",
"complexType" : "VPCDerivedInfo",
"documentation" : null,
"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
}
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "VPCDerivedInfo",
"variableName" : "vpcOptions",
"complexType" : "VPCDerivedInfo",
"documentation" : null,
"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
}
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "VPCDerivedInfo",
"variableName" : "vpcOptions",
"complexType" : "VPCDerivedInfo",
"documentation" : null,
"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
}
"simple" : false,
"timestampFormat" : null,
"simpleType": "VPCDerivedInfo",
"variableSetterType": "VPCDerivedInfo"
},
"xmlNameSpaceUri": null
}
],
"nonStreamingMembers": [
{
"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)}. @param domainId 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 #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,
"fluentGetterMethodName": "domainId",
"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" : "<p>The unique identifier for the specified Elasticsearch domain.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<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>
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@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.

@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).</p>

"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).

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "domainName",
"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).

@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",
"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",
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] and return Returns a reference to this object so that method calls can be chained together.
@see #arn(String)",
"deprecated": false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterMethodName" : "arn",
@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" : "ARN",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ARN",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
The Amazon resource name (ARN) of an Elasticsearch domain. See Identifiers for IAM Entities for more information.

```java
@Param Arn
```

The domain creation status. True if the creation of an Elasticsearch domain is complete. False if domain creation is still in progress.

```java
@Param Created
```
"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" : "<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 the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.</p>
Not a deletion 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.

This is a convenience that creates an instance of the <code>Boolean.Builder</code> avoiding the need to create one manually like <code>Boolean.builder().build()</code>. When the <code>Consumer</code> completes, the <code>Boolean.Builder#build()</code> is called immediately and its result is returned to the application. The <code>deleted</code> parameter is a consumer that will call methods on <code>Boolean.Builder</code> so that method calls can be chained together. Returns a reference to this object.

"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>"
"eventId" : 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>
@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.</p>
@return Returns a reference to this object so that method calls can be chained together.",
"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.</p>
@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.",
"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,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Deleted"
"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" : "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.",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getEndpoint",
"beanStyleSetterMethodName" : "setEndpoint",
"c2jName" : "Endpoint",
"c2jShape" : "ServiceUrl",
"defaultConsumerFluentSetterDocumentation" : "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)}.

Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)",
"deprecated" : false,
"documentation" : "The Elasticsearch domain endpoint that you use to submit index and search requests.",
"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>
@param endpoint The Elasticsearch domain endpoint that you use to submit index and search requests.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "endpoint",
"getterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
@return 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
},
{
  "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-h2ds34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>
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 #endpoints(Map&lt;String,String&gt;)}.
@param endpoints a consumer that will call methods on { @link Map&lt;String,String&gt;}.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #endpoints(Map&lt;String,String&gt;)
",
  "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-h2ds34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>",
  "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-h2ds34efgyghrtguk5gt6j2foh4.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-h2ds34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.
@return 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-h2ds34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>. Returns a reference to this object so that method calls can be chained together.
",
  "getterSetterMethodNames" : "endpoints",
  "getterDocumentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc', vpc-endpoint-h2ds34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>. 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.

@return Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example:

```java
Map<String, String> endpoints = new HashMap<String, String>() {
    {put("vpc", "vpc-endpoint-h2dsd34efgyghtuk5gtj6j2foh4.us-east-1.es.amazonaws.com");
    },
```

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via

```java
String.Builder.newBuilder().
```

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #key(String)}.

@see #key(String)
"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.",
"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" : "ServiceUrl",
"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 String#builder()}.\n@param value 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 #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\nReturns a reference to this object so that method calls can be chained together.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@deprecated"
"getterDocumentation" : "Returns the value of the Value property for this object.\n\n@returns The value of the Value property for this object.\n\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  @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"
  },
  "xmlnsNameSpaceUri": null
"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>.",
"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
},

"getterStyleMethodName" : "getEndpoints",
"getterStyleSetterMethodName" : "setEndpoints",
"getterModel" : {
   "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" : "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)}.<code>@param processing 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 #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>
@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.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "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>
@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.",
"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"
"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.",

"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": "<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>

  "simple": "Boolean",
  "variableSetterType": "Boolean"
},
"xmlnsSpaceUri": null
},
"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 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] returns a reference to this object so that method calls can be chained together.

@<see #upgradeProcessing(Boolean)>
"deprecated": false,
"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>

  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeProcessing",
"fluentSetterDocumentation" : "<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.

@param upgradeProcessing The status of an Elasticsearch domain version upgrade.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "upgradeProcessing",
"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.

@return The status of an Elasticsearch domain version 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" : "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" : "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.

@param upgradeProcessing The status of an Elasticsearch domain version upgrade.

@return Returns a reference to this object so that method calls can be chained together.

"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" : "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.",
  "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. 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 <code>String.Builder</code> is called immediately and its result is passed to the <code>String</code>.

@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."
  @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.
  @see #elasticsearchVersion(String)"
  "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.
",
"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"
}
The 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 Consumer completes, ElasticsearchClusterConfig.Builder#build() is called immediately and its result is passed to ElasticsearchClusterConfig a consumer that will call methods on ElasticsearchClusterConfig.Builder#build() to this object so that method calls can be chained together.

@see ElasticsearchClusterConfig(ElasticsearchClusterConfig)

@deprecated
The type and number of instances in the domain cluster.

@endpointDiscoveryId
false

@enumType
null

@eventHeader
false

@eventPayload
false

@fluentEnumGetterMethodName
null

@fluentEnumSetterMethodName
null

@fluentGetterMethodName
elasticsearchClusterConfig

@fluentSetterDocumentation
The type and number of instances in the domain cluster.

@fluentSetterMethodName
elasticsearchClusterConfig

@getterDocumentation
The type and number of instances in the domain cluster.

@getterModel

@http

@additionalMarshallingPath
null

@additionalUnmarshallingPath
null

@flattened
false

@greedy
false

@header
false

@isPayload
false

@isStreaming
false

@location
null

@marshallLocation
PAYLOAD

@marshallLocationName
elasticsearchClusterConfig

@queryString
false

@simpleType
"String"

@variableSetterType
"String"

@xmlNameSpaceUri
null
"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
},
"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : ”<p>The <code>EBSOptions</code></p> for the specified 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 {@link #ebsOptions(EBSOptions)}. param ebsOptions a consumer that will call methods on {@link
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"sensitive" : false,

"setterDocumentation" : "\n<p>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.\p>\n## 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.\n\n"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" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getAccessPolicies",
"beanStyleSetterMethodName" : "setAccessPolicies",
"c2jName" : "AccessPolicies",
"c2jShape" : "PolicyDocument",

"defaultConsumerFluentSetterDocumentation" : "\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\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\n@see #accessPolicies(String)\n"
"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 Returns a reference to this object so that method calls can be chained together.",
"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></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>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.",
  "fluentSetterMethodName" : "snapshotOptions",
  "getterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@returns the status of the <code>SnapshotOptions</code>
@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",
"simple": 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": null,
"simpleType": "SnapshotOptions",
"simpleType": "SnapshotOptions"
"variableSetterType" : "SnapshotOptions",
},
"xmlnsNameSpaceUri" : null
},
 {
 "beanStyleGetterMethodName" : "getVpcOptions",
 "beanStyleSetterMethodName" : "setVpcOptions",
 "c2jName" : "VPCOptions",
 "c2jShape" : "VPCDerivedInfo",
 "defaultValueConsumerFluentSetterDocumentation" : "<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#builder()]. When the [@link Consumer] completes, [@link VPCDerivedInfo.Builder#build() is called immediately and its result is passed to [@link VPCOptions#VPCDerivedInfo] a consumer that will call methods on [@link VPCDerivedInfo.Builder].

@returns 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>
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"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",
"simple" : 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>.<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>.

"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" : "<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" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
},
"xmlnsNameSpaceUri" : null
},
  "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> Amazon Cognito Authentication for Kibana

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>

@see #cognitoOptions(CognitoOptions)

@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> Amazon Cognito Authentication for Kibana

"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> Amazon Cognito Authentication for Kibana

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>

@returns 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> Amazon Cognito Authentication for Kibana

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>

@returns Returns a reference to this object so that method calls can be chained together.

"getterMethodName" : "cognitoOptions",
"getReturnType" : "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 Amazon Cognito Authentication for Kibana.",
@param cognitoOptions The <code>CognitoOptions</code> for the specified domain. For more information, see Amazon Cognito Authentication for Kibana.

"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"
}
Amazon Cognito Authentication for Kibana</a>.</p>

"simpleType" : "CognitoOptions",
"variableSetterType" : "CognitoOptions"
},
"xmlnsSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
"beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
"c2jName" : "EncryptionAtRestOptions",
"c2jShape" : "EncryptionAtRestOptions",
"defaultValueSetterDocumentation" : "<p> Specifies the status of the
</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(EncryptionAtRestOptions)}. @param encryptionAtRestOptions 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 #encryptionAtRestOptions(EncryptionAtRestOptions)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@endp
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "encryptionAtRestOptions",
"fluentSetterDocumentation" : "<p> Specifies the status of the
</p>
Returns a reference to this object so that method calls can be chained together.
"@see #encryptionAtRestOptions(EncryptionAtRestOptions)",
"fluentSetterMethodName" : "encryptionAtRestOptions",
"getterDocumentation" : "<p> Specifies the status of the
</p>
@see #encryptionAtRestOptions(EncryptionAtRestOptions)",
"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",
"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
}, {
  "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)}.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)"

"deprecated" : false,
"documentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>",
"endpointDiscoveryId" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>
@param nodeToNodeEncryptionOptions Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.<p>
@return Returns a reference to this object so that method calls can be chained together.

return

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)"

"getDocumentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.<p>
"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,
<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>
@param nodeToNodeEncryptionOptions Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.

 setters documentation: "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>
@param nodeToNodeEncryptionOptions Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.

 setters method name: "setNodeToNodeEncryptionOptions",

 setter model: {
  variable declaration type: "NodeToNodeEncryptionOptions",
  variable name: "nodeToNodeEncryptionOptions",
  variable type: "NodeToNodeEncryptionOptions",
  documentation: null,
  simple type: "NodeToNodeEncryptionOptions",
  variable setter type: "NodeToNodeEncryptionOptions"
}

 simple: false,
 timestamp format: null,
 variable: {
  variable declaration type: "NodeToNodeEncryptionOptions",
  variable name: "nodeToNodeEncryptionOptions",
  variable type: "NodeToNodeEncryptionOptions",
  documentation: "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>
  simple type: "NodeToNodeEncryptionOptions",
  variable setter type: "NodeToNodeEncryptionOptions"
}

 xml name space uri: null

{
  bean style getter method name: "getAdvancedOptions",
  bean style setter method name: "setAdvancedOptions",
  "c2jName": "AdvancedOptions",
  "c2jShape": "AdvancedOptions",
  default consumer fluent setter documentation: "<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()}.\n 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>)}.\n @param advancedOptions a consumer that will call methods on { @link Map<String,String>.Builder}\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": "<p>Specifies the status of the <code>AdvancedOptions</code></p>
  endpoint discovery id: false,
  "enum type": null,
  "event header": false,
  "event payload": false,
  "fluent enum getter method name": null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "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 <code>AdvancedOptions</code></p>
<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return Specifies the status of the <code>AdvancedOptions</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" : "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#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
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."

@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."

@param key The new value for 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.
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)}. The return value is a reference to this object so that method calls can be chained together."

@Deprecated
@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.

@Return Returns a reference to this object so that method calls can be chained together."

@Deprecated
@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.

@Return Returns a reference to this object so that method calls can be chained together."

@Deprecated
@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.

@Return Returns a reference to this object so that method calls can be chained together."

@Deprecated
@see #value(String)
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
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": "", "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>)}. Returns a reference to this object so that method calls can be chained together.
@see LogPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
"deprecated": false,
Log publishing options for the given domain.

@returns 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.

Get Log publishing options for the given domain.

The returned object allows for method chaining.

Mapping:

String to LogPublishingOption

HTTP

Additional Marshalling Path: null

Additional Unmarshalling Path: null

Flattened: false

Greedy: false

Header: false

Is Payload: false

Is Streaming: false

Location: null

Marshalling Location: PAYLOAD

Marshalling Location Name: LogPublishingOptions

QueryString: false

StatusCode: false

Unmarshalling Location Name: LogPublishingOptions

Uri: false

Idempotency Token: false

Is Binary: false

JsonValue: false

List: false

List Model: null

Map: true

Map Model: {

Impl Type: java.util.HashMap

Interface Type: java.util.Map

Key Location Name: key

Key Model: {

Bean Style Getter Method Name: getKeyAsString

Bean Style Setter Method Name: setKey

Log Publishing Options Log publishing options for the given domain.

Log publishing options for the given domain.

Log publishing options for the given domain.
"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 keyAs(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": "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 LogType#UNKNOWN_TO_SDK_VERSION} will be returned. 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,
  "flatnenned": 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)@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.
@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@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@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.",
"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>\n@\n\nLogPublishingOptions 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>\n\nLog publishing options for the given domain.",
"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.\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\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.\n\n@param serviceSoftwareOptions a consumer that will call methods on [@link ServiceSoftwareOptions.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #serviceSoftwareOptions(ServiceSoftwareOptions)"
",
"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.\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #serviceSoftwareOptions(ServiceSoftwareOptions)"
",
"fluentSetterMethodName" : "serviceSoftwareOptions",
"getterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.\n\n@return The current status of the Elasticsearch domain's service software.\n\ngetterModel" : {
  "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>
@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": null,
  "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",
  "variable": {
    "variableDeclarationType": "ElasticsearchVersionStatus",
    "variableName": "elasticsearchVersionStatus",
    "variableType": "ElasticsearchVersionStatus",
    "documentation": null,
    "simpleType": "ElasticsearchVersionStatus",
    "variableSetterType": "ElasticsearchVersionStatus"
  },
  "wrapper": false
}
"customization" : {
  "artificialResultWrapper" : null,
  "skipGeneratingMarshaller" : false,
  "skipGeneratingModelClass" : false,
  "skipGeneratingUnmarshaller" : false,
  "staxTargetDepthOffset" : 0,
},
"deprecated" : false,
"documentation" : "<p> Status of the Elasticsearch version 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" : "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()}. 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.</p>
@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.</p>
@return Specifies the Elasticsearch version for the specified Elasticsearch domain."
  },
}
"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>
 @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>
 @param options Specifies the Elasticsearch version for the specified Elasticsearch domain."
"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>
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 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>
@param status Specifies the status of the Elasticsearch version 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 Elasticsearch version options for the specified 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,
Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

@param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

\n
<\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)\}.\n@returns a reference to this object so that method calls can be chained together.\n\n"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. </p>\n@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. \n@returns ",
"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>
@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
},
"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#builder()}. When the {@link Consumer} completes, [@link OptionStatus.Builder#build() is called immediately and its result is passed to {[@link OptionStatus.Builder#build()}].
  @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 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>
  @param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.
  @return Returns a reference to this object so that method calls can be chained together.".
}
"getterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>\n@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>\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>",
    "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> 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)}.<p>
    @param options a consumer that will call methods on {@link String.Builder}</p>
    @return Returns a reference to this object so that method calls can be chained together.</p>
    @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.</p>"

"@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.
    @see #options(String)"
},
"getterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>"

"@return Specifies the Elasticsearch version for the specified Elasticsearch domain.
},
"gettersModel" : {
    "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",
"setterDocumentation": "<p>Specifies the Elasticsearch version for the specified Elasticsearch domain.</p><p>@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>",
"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
This is a convenience that creates an instance of the OptionStatus.Builder avoiding the need to create one manually via OptionStatus.builder(). When the { @link Consumer} completes, OptionStatus.Builder.build() is called immediately and its result is passed to { @link status(OptionStatus)}.

When the { @link Consumer} completes, 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)

Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

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,
```

```
"deprecated": false,
"documentation": "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

```

```
@endpointDiscoveryId": false,
"eventType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetMethodName": "status",
"fluentSetterDocumentation": "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

```

```
@endpointDiscoveryId": false,
"eventType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetMethodName": "status",
"fluentSetterDocumentation": "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

```

```
@endpointDiscoveryId": false,
"eventType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetMethodName": "status",
"fluentSetterDocumentation": "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

```

```
@endpointDiscoveryId": false,
"eventType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetMethodName": "status",
"fluentSetterDocumentation": "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

```

```
@endpointDiscoveryId": false,
"eventType": null,
"eventHeader": false,
Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

```
@param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.
```

```
public void setStatus(OptionStatus status) {
    this.status = status;
}
```
"EncryptionsAtRestOptions" : {
    "c2jName" : "EncryptionAtRestOptions",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "<p>Specifies the Encryption At Rest 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,
    "members" : [
        {
            "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.Builder#build() } is called immediately and its result is passed to { @link #enabled(Boolean) }.

@see #enabled(Boolean)",
            "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>
            "fluentSetterMethodName" : "enabled",
            "hasHeaderMember" : false,
            "hasPayloadMember" : false,
            "hasStatusCodeMember" : false,
            "hasStreamingMember" : false,
            "httpStatusCode" : null,
            "marshaller" : null,
            "marshallable" : null,
            "members" : []
        }
    ]
}
"getterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>@return Specifies the option to enable Encryption At Rest."
,"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"
],
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getKmsKeyId",
"beanStyleSetterMethodName" : "setKmsKeyId",
"c2jName" : "KmsKeyId",
"c2jShape" : "KmsKeyId",
"defaultValueFluentSetterDocumentation" : "<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)}.

@see #kmsKeyId(String)
@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",
"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.
",
"getDocumentation" : "<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.
",
"getEnum" : {
"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
} ]
"membersAsMap" : {
  "Enabled" : {
    "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.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)

Specifies the option to enable Encryption At Rest. Returns a reference to this object so that method calls can be chained together.

@fluentSetterMethodName "enabled"

Specifies the option to enable Encryption At Rest.

@getterDocumentation "<p>Specifies the option to enable Encryption At Rest.</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 Encryption At Rest.</p>

@param enabled

Specifies the option to enable Encryption At Rest.

@returns Returns a reference to this object so that method calls can be chained together."
"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>
  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} @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",
  "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.",
  "fluentSetterMethodName" : "kmsKeyId",
  "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,
"marshallType" : "STRING",
"name" : "KmsKeyId",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"getterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
亿元以上
_kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
",
"getterMethodName" : "getKmsKeyId",
"getterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"setterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
亿元以上
_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"
},
"setterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
亿元以上
_kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
",
"setterMethodName" : "getKmsKeyId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"setterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
亿元以上
_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"
},
"setterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
亿元以上
_kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
",
"setterMethodName" : "getKmsKeyId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"setterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
亿元以上


"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.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 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>
  Specifies the option to enable Encryption At Rest.
  @return Returns a reference to this object so that method calls can be chained together.
  
  "fluentSetterMethodName" : "enabled",
  "getterDocumentation" : "<p>Specifies the option to enable Encryption At Rest.</p>
  Specifies the option to enable Encryption At Rest.
  @return Specifies the option to enable Encryption At Rest.
  
  "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,
  "statusMessage" : null
}
"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" : "&lt;p&gt;Specifies the option to enable Encryption At Rest.&lt;/p&gt;
@<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" : "&lt;p&gt;Specifies the option to enable Encryption At Rest.&lt;/p&gt;",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getKmsKeyId",
"beanStyleSetterMethodName" : "setKmsKeyId",
"c2jName" : "KmsKeyId",
"c2jShape" : "KmsKeyId",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt; Specifies the KMS Key ID for Encryption At Rest options.&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 #kmsKeyId(String)}.
@param kmsKeyId 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 #kmsKeyId(String)",
"deprecated" : false,
"documentation" : "&lt;p&gt; Specifies the KMS Key ID for Encryption At Rest options.&lt;/p&gt;"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "kmsKeyId",
"fluentSetterMethodName" : null,
"fluentSetterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.
@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.
</p>

"getterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.
@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.
@param
kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
@return
Specifies the KMS Key ID for Encryption At Rest options.

"setterModel" : {
"variableDeclarationType" : "String",
"setterMethodName" : "setKmsKeyId",
"setterModel" : null
}
"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>"},

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"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" : "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()\} \nWhen the \{@link Consumer\} completes, \{@link EncryptionAtRestOptions.Builder#build()\} is called immediately and its result is passed to \{@link EncryptionAtRestOptions.Builder\}@param options a consumer that will call methods on \{@link EncryptionAtRestOptions.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\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\>\n@return Returns a reference to this object so that method calls can be chained together.\n@see \#options(EncryptionAtRestOptions)\",
    "getterDocumentation" : "\<p\> Specifies the Encryption At Rest options for the specified Elasticsearch domain.\</p\>\n@return Specifies the Encryption At Rest options for the specified Elasticsearch domain.\n@return Specifies the Encryption At Rest options for the specified Elasticsearch domain.\n@see \#options(EncryptionAtRestOptions)\",
    "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" : {
  "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
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status"
c2jShape" : "OptionStatus",
"documentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>

When the [ @link Consumer] completes, [ @link OptionStatus.Builder#build()] is called immediately and its result is passed to [ @link #status(OptionStatus)].

@see #status(OptionStatus)",
"deprecated" : false,
"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>

@see #status(OptionStatus)",
"getterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>

@see #status(OptionStatus)",
"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
],
"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 #options(EncryptionAtRestOptions)}.
@deprecated options a consumer a browser 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>".\n\nOpen Source Used In MSX SD-WAN Service Pack 4.0.0 9514
"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>
@returns Specifies the Encryption At Rest options for the specified Elasticsearch domain.
@returns 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>
@returns 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>
@returns Specifies the Encryption At Rest options for the specified Elasticsearch domain.
",
 "setterMethodName" : "setOptions",
 "setterModel" : {
 "variableDeclarationType" : "EncryptionAtRestOptions",
 "returnType" : "EncryptionAtRestOptions",
 "documentation" : null
},
"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 Consumer} completes, the builder is immediately and its result is passed to the builder's method. Consumers that will call methods on the builder are specified by using the fluent setter method. 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,
  "fluentGetterMethodIdentifier" : "status",
  "fluentSetterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>\n
@returns 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>\n
@returns 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>
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 #options(EncryptionAtRestOptions)}.  
@param options a consumer that will call methods on { @link EncryptionAtRestOptions.Builder} that 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 #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.
@link #options(EncryptionAtRestOptions)",
"getterDocumentation" : "<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 Specifies the Encryption At Rest options for the specified Elasticsearch domain.
@link #options(EncryptionAtRestOptions)",
"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": {
  "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>
  "simple": "EncryptionAtRestOptions",
  "variableSetterType": "EncryptionAtRestOptions"
},
"xmlnsSpaceUri": 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>
  <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() }. </p>
  When the
{@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #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 #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  @param status Specifies the status of the Encryption At Rest 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 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.\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 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" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : 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" : "Container for request parameters to GetCompatibleElasticsearchVersions operation. \n\nendpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : 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.\n\nThis is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via \n[link String#builder()]. When the [link Consumer] completes, \n[link String.Builder#build()] is called immediately and its result is passed to \n[link #domainName(String)].\n\n@param domainName a consumer that will call methods on \n[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" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluientEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\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@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",
"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.\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": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
},
"membersAsMap": {
  "DomainName": {
    "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 [\@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)",
    "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.\nThe new value for the DomainName property for this object.\n\n@see #domainName(String)",
    "fluentSetterMethodName": "domainName",
    "getterDocumentation": "Returns the value of the DomainName property for this object.\n\n@retur..."
"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.

@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
}
],
"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getDomainName",
    "getterMethodName" : "getDomainName",
    "getterModel" : {
      "getterDeclarationType" : "String",
      "getterName" : "domainName",
      "getterType" : "String",
      "documentation" : "",
      "getterSetterType" : "String"
    },
    "simple" : true,
    "timestampFormat" : null,
    "variable" : {
      "variableDeclarationType" : "String",
      "variableName" : "domainName",
      "variableType" : "String",
      "documentation" : "",
      "simpleType" : "String",
      "variableSetterType" : "String"
    },
    "xmlNameSpaceUri" : null
  }
]
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultValueSetterDocumentation" : "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.
@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" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "domainName",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "domainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"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" : null,
  "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" : {

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"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for response returned by <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" : null,
"members" : [ {
"beanStyleGetterMethodName" : "getCompatibleElasticsearchVersions",
"beanStyleSetterMethodName" : "setCompatibleElasticsearchVersions",
"c2jName" : "CompatibleElasticsearchVersions",
"c2jShape" : "CompatibleElasticsearchVersionsList",
"defaultConsumerFluentSetterDocumentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code> <a>GetCompatibleElasticsearchVersions</a> </code> operation. </p>\nThis is a convenience that creates an instance of the { @link List<CompatibleVersionsMap>.Builder} avoiding the need to create one manually via { @link List<CompatibleVersionsMap>#builder()}.\nWhen the { @link Consumer} completes, { @link List<CompatibleVersionsMap.Builder#build()}) is called immediately and its result is passed to { @link #compatibleElasticsearchVersions(List<CompatibleVersionsMap>)}.\n@see #compatibleElasticsearchVersions(List<CompatibleVersionsMap>)",
"deprecated" : false,
"documentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code>
<a>GetCompatibleElasticsearchVersions</a> </code> operation. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "compatibleElasticsearchVersions",
"fluentSetterDocumentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code>
<a>GetCompatibleElasticsearchVersions</a> </code> operation. </p>\n@see compatibleElasticsearchVersions
A map of compatible Elasticsearch versions returned as part of the <code>
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.

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#builder()}`. When the `{@link Consumer}` completes, `{@link CompatibleVersionsMap.Builder#build()}` is called immediately and its result is passed to `{@link #member(CompatibleVersionsMap)}`.

@see #member(CompatibleVersionsMap)

@deprecated
"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@ 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" : "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@ 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>
<a>GetCompatibleElasticsearchVersions</a> </code> operation. </p>
@param compatibleElasticsearchVersions A map of compatible Elasticsearch versions returned as part of the <code>
<a>GetCompatibleElasticsearchVersions</a> </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><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>",
  "simpleType" : "List<CompatibleVersionsMap>",
  "variableSetterType" : "java.util.Collection<CompatibleVersionsMap>"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
  "CompatibleElasticsearchVersions" : {
    "beanStyleGetterMethodName" : "getCompatibleElasticsearchVersions",
    "beanStyleSetterMethodName" : "setCompatibleElasticsearchVersions",
    "c2jName" : "CompatibleElasticsearchVersions",
    "c2jShape" : "CompatibleElasticsearchVersionsList",
    "defaultConsumerFluentSetterDocumentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>
This is a convenience that creates an instance of the {@link List<CompatibleVersionsMap>.Builder} avoiding the need to create one manually via {@link List<CompatibleVersionsMap>#builder()}. When the {@link Consumer} completes, {@link List<CompatibleVersionsMap>.Builder#build()} is called immediately and its result is passed to {@link #compatibleElasticsearchVersions(List<CompatibleVersionsMap>)}. When the {@link List<CompatibleVersionsMap>.Builder} completes, it returns 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><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>"
  },
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "compatibleElasticsearchVersions",
  "fluentSetterDocumentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>
@param compatibleElasticsearchVersions A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.
@return Returns a reference to this object so that method calls can be chained together.
@see #compatibleElasticsearchVersions(List<CompatibleVersionsMap>)",
    "getterDocumentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@see #compatibleElasticsearchVersions()

@return A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.
"}
"getterModel" : {
  "returnType" : "java.util.List<CompatibleVersionsMap>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : 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)}].
@see #member(CompatibleVersionsMap)
@deprecated"
  }
},
"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@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" : "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",

"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\n@method Returns a reference to this object so that method calls can be chained together.",

"setterMethodName" : "setMember",

"setterModel" : {
  "variableDeclarationType" : "CompatibleVersionsMap",
  "variableName" : "member",
  "variableType" : "CompatibleVersionsMap",
  "documentation" : null,
  "simpleType" : "CompatibleVersionsMap",
  "variableSetterType" : "CompatibleVersionsMap"
},

"simple" : false,
A map of compatible Elasticsearch versions returned as part of the `<code>GetCompatibleElasticsearchVersions</code>` operation.

```xml
<map>
  <memberLocationName>null</memberLocationName>
  <memberType>CompatibleVersionsMap</memberType>
  <map>false</map>
  <mapModel>null</mapModel>
  <marshallingType>LIST</marshallingType>
  <name>CompatibleElasticsearchVersions</name>
  <timestampFormat>null</timestampFormat>
</map>
```

```xml
<setterDocumentation>
  <p>A map of compatible Elasticsearch versions returned as part of the `<code>GetCompatibleElasticsearchVersions</code>` operation.</p>
</setterDocumentation>
```

```xml
<setterMethodName>setCompatibleElasticsearchVersions</setterMethodName>
<setterModel>
  
  <variableDeclarationType>java.util.List<CompatibleVersionsMap></variableDeclarationType>
  <variableName>compatibleElasticsearchVersions</variableName>
  <variableType>java.util.List<CompatibleVersionsMap></variableType>
  <variableSetterType>java.util.Collection<CompatibleVersionsMap></variableSetterType>
  <simple>false</simple>
</setterModel>
```

```xml
<setterDocumentation>
  <p>A map of compatible Elasticsearch versions returned as part of the `<code>GetCompatibleElasticsearchVersions</code>` operation.</p>
</setterDocumentation>
```

```xml
<simpleType>List<CompatibleVersionsMap></simpleType>
```
"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><a>GetCompatibleElasticsearchVersions</a></code> operation. 
This is a convenience that creates an instance of the
{@link List<CompatibleVersionsMap>.Builder} avoiding the need to create one manually via
{@link List<CompatibleVersionsMap>#builder()}. 
When the (@link Consumer) completes,
 {@link List<CompatibleVersionsMap>.Builder#build()} is called immediately and its result is passed
to (@link #compatibleElasticsearchVersions(List<CompatibleVersionsMap>) a consumer that will call methods
on (@link List<CompatibleVersionsMap>.Builder)\n@return Returns a reference to this object so that method calls can be chained together.\n@see #compatibleElasticsearchVersions(List<CompatibleVersionsMap>)",
  "deprecated" : false,
  "documentation" : "<p>A map of compatible Elasticsearch versions returned as part of the <code>
GetCompatibleElasticsearchVersions</code> operation. 
</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "compatibleElasticsearchVersions",
  "fluentSetterMethodName" : "compatibleElasticsearchVersions",
  "fluentGetterDocumentation" : "<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. 
@return Returns a reference to this object so that method calls can be chained together.
",
  "getterModel" : {
    "returnType" : "java.util.List<CompatibleVersionsMap>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : 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\n@param member a consumer that will call methods on \{@link CompatibleVersionsMap.Map\}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@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. 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\n@param member a consumer that will call methods on \{@link CompatibleVersionsMap.Map\}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(CompatibleVersionsMap)",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object.\n\ngetterMethod" : |
  "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",
"simple" : 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"
}
A map of compatible Elasticsearch versions returned as part of the \texttt{GetCompatibleElasticsearchVersions} operation.

\texttt{\@param compatibleElasticsearchVersions}

A map of compatible Elasticsearch versions returned as part of the \texttt{GetCompatibleElasticsearchVersions} operation.

\texttt{\@param compatibleElasticsearchVersions}

A map of compatible Elasticsearch versions returned as part of the \texttt{GetCompatibleElasticsearchVersions} operation.

\texttt{\@param compatibleElasticsearchVersions}
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "GetCompatibleElasticsearchVersionsResponse",
  "variableName" : "getCompatibleElasticsearchVersionsResponse",
  "variableType" : "GetCompatibleElasticsearchVersionsResponse",
  "documentation" : null,
  "simpleType" : "GetCompatibleElasticsearchVersionsResponse",
  "variableSetterType" : "GetCompatibleElasticsearchVersionsResponse"
},
"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" : "GetUpgradeHistoryRequest",
    "customization" : {
      "artificialResultWrapper" : null,
      "skipGeneratingMarshaller" : false,
      "skipGeneratingModelClass" : false,
      "skipGeneratingUnmarshaller" : false,
      "staxTargetDepthOffset" : 0
    }
  ]
}
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultValueSetterDocumentation" : "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.
@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" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
null,
"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" :",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "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]\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@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.",
"fluentSetterMethodName" : "maxResults",
"setterDocumentation" : "Sets the value of the MaxResults property for this object.\n@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
}, {
  "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 [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 #nextToken(String)]\n@see #nextToken(String)/
@param nextToken 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
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.\nThe new value for the NextToken property for this object.\n@return Returns a reference to this object so that method calls can be chained together.\n",
  "fluentSetterMethodName" : "nextToken",
  "getterDocumentation" : "Returns the value of the NextToken property for this object.\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"
},
"xmlnsNameSpaceUri" : null
},
"membersAsMap" : {
  "DomainName" : {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName 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 #domainName(String)] \}. Returns a reference to this object so that method calls can be chained together.

```
@see #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.
"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,

"MaxResults": {
"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. \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.

@\param maxResults 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.",

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"fluentSetterMethodName" : "setMaxResults",
"getterDocumentation" : "Returns the value of the MaxResults property for this object.
@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 [String.Builder] avoiding the need to create one manually via [String.Builder#builder()]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [String#builder()].

When the [Consumer] completes, it returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@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.

@link #nextToken(String)

@return Returns a reference to this object so that method calls can be chained together.

@link #nextToken(String)

@see #nextToken(String)

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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\n@param nextToken The new value for the NextToken property for this object.\n\n@link String\n\n\nsetterMethodName" : "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" : "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 \n\n@link String.Builder\n\navoiding the need to create one manually via \n\n@link String#builder()\n\n\nWhen the \n\n@link Consumer\n\ncompletes, \n\n@link
\n
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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 {
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.
@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" : "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" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "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 \( @link #maxResults(Integer) \).\n@\param maxResults a consumer that will call methods on \( @link Integer.Builder \) that return a reference to this object so that method calls can be chained together.\n@see #maxResults(Integer)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeaderValue" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "maxResults",
  "fluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.
@\param maxResults 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.
@\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.\n\n@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" : "",
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "Integer",
    "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} 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,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of 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,
  "statusName" : "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\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" : "",
  "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"
"GetUpgradeHistoryResponse": {
  "c2jName": "GetUpgradeHistoryResponse",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "A list of \[<a>UpgradeHistory</a>\] 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 \{\@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>)\}\n
  \n  
  \n  
  
  
  
  
  
  @param upgradeHistories a consumer that will call methods on \{\@link List<UpgradeHistory>.Builder\}\n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #upgradeHistories(List<UpgradeHistory>)",
  "deprecated": false,
  "documentation": "A list of \[<a>UpgradeHistory</a>\] objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>GetUpgradeHistoryResponse</code> object."
},
"endpointDiscovery": null,
"enums": null,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "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.

@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.

"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. 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, [@link UpgradeHistory.Builder#build()] is called immediately and its result is passed to [@link #member(UpgradeHistory)].\n\n@param member a consumer that will call methods on [@link UpgradeHistory.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(UpgradeHistory)",

"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" : "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.
@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" : null,
    "simpleType" : "UpgradeHistory",
    "variableSetterType" : "UpgradeHistory"
},
"xmlnsSpaceUri" : 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>',
  "simpleType" : "List<UpgradeHistory>",
  "variableSetterType" : "java.util.Collection<UpgradeHistory>",
},
"xmlNameSpaceUri" : null,
},
"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>
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.

@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>

@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,
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>

@<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>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@param nextToken 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 #nextToken(String)",
"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",
"fluentSetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of
results</p>\n@param nextToken Pagination token that needs to be supplied to the next call to get the next
page of results\n@return
Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of
results</p>\n@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",
"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"
},
"xmlnsNamespaceUri" : 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 List<UpgradeHistory>.Builder#build()] is called immediately and its result is passed to [ @link List<UpgradeHistory>],

A reference to this object so that method calls can be chained together. 

"deprecated" : false,
"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>

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "<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>

"getterDocumentation" : "<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>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

"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,
  "marshallILocation" : "PAYLOAD",
  "marshallILocationName" : "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.\nThis is a convenience that creates an instance of the [@link UpgradeHistory.Builder] avoiding the need
\nto create one manually via [@link UpgradeHistory#builder()].\nWhen the [@link Consumer] completes, [@link
UpgradeHistory.Builder#build()] is called immediately and its result is passed to [@link
#member(UpgradeHistory)].\n\n@param member a consumer that will call methods on [@link
UpgradeHistory.Builder]\n\n@see #member(UpgradeHistory)",
  "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(UpgradeHistory)",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\nThe value of the Member property for this object.\n@see #member(UpgradeHistory)",
  "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.\n\n\n@\nsetterMethodName" : "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>
"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>"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"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>\nThis 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()].\n\nWhen the [@link Consumer] completes, [@link List<UpgradeHistory>.Builder#build()] is called immediately and its result is passed to [@link #upgradeHistories(List<UpgradeHistory>)].\n\n@param upgradeHistories a consumer that will call methods on [@link List<UpgradeHistory>.Builder]\n\n@see #upgradeHistories(List<UpgradeHistory>)\n\n"deprecated" : false,
"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>GetUpgradeHistoryResponse</code> object. </p>\n\n@endpDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "<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>GetUpgradeHistoryResponse</code> object. </p>\n\n@endpDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "<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>GetUpgradeHistoryResponse</code> object. </p>\n\n@endpDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "<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>GetUpgradeHistoryResponse</code> object. </p>\n\n@endpDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "<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>GetUpgradeHistoryResponse</code> object. </p>\n\n@endpDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "<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>GetUpgradeHistoryResponse</code> object. </p>\n\n@endpDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "<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>GetUpgradeHistoryResponse</code> object. </p>\n\n@endpDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluent 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>GetUpgradeHistoryResponse</code> object. </p>\n\n@endpDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluent 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>GetUpgradeHistoryResponse</code> object. </p>\n\n@endpDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"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. 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, [@link UpgradeHistory.Builder#build()] is called immediately and its result is passed to [@link #member(UpgradeHistory)]. @param member a consumer that will call methods on [@link UpgradeHistory.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #member(UpgradeHistory)",
    "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" : "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.

@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" : 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" : "<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. <br>
@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. <br>
@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>"
},
"xmlNameSpaceUri" : null
},
}{
"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>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 #nextToken(String)}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #nextToken(String)",
"deprecated" : false,
"documentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of
"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 Pagination token that needs to be supplied to the next call to get the next page of results",
"setterMethodName": "setNextToken"
"setterModel" : {
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  "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
  }
}
Container for request parameters to `GetUpgradeStatus` operation. 

```

"deprecated" : false,
"documentation" : "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",
"xmlNameSpaceUri" : null
},
"members" : [ {
"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() \}.\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" : "",
"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\n@return Returns a reference to this object so that method calls can be chained together.\n",
"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@param domainName
The new value for the DomainName property for this object.\n"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)].
 @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.
 The new value for 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": "uri",
"marshallLocation": "PATH",
"marshallLocationName": "DomainName", "returnType": "String", "documentation": null
}
"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" : "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.\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@param
domainName a consumer that will call methods on { @link String.Builder }\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@see domai

domainName The new value for the DomainName property for this object.\n\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" : ",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@see doma
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,
    "staxTargetDepthUnmarshall" : 0
  },
  "deprecated" : false,
"documentation" : "<p> Container for response returned by <code>GetUpgradeStatus</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" : "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 [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 [UpgradeStepAsString(String)].

@deprecated
@see #upgradeStepAsString(String)

@returns {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
@returns {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
"",
"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>
"dependence": 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>
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterMethodName" : "upgradeStep",
"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 {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
@returns {UpgradeStep} 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,
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"eventStream" : false,
"eventPayload" : false,
"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 [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 [UpgradeStepAsString(String)].

@deprecated
@see #upgradeStepAsString(String)

@returns {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
@returns {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
"",
"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>
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterMethodName" : "upgradeStep",
"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 {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
@returns {UpgradeStep} 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",
"eventStream" : false,
"eventPayload" : false,
"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 [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 [UpgradeStepAsString(String)].

@deprecated
@see #upgradeStepAsString(String)

@returns {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
@returns {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
"",
"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>
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterMethodName" : "upgradeStep",
"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 {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
@returns {UpgradeStep} 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",
"eventStream" : false,
"eventPayload" : false,
"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 [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 [UpgradeStepAsString(String)].

@deprecated
@see #upgradeStepAsString(String)

@returns {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
@returns {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
"",
"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>
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterMethodName" : "upgradeStep",
"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 {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
@returns {UpgradeStep} Returns a reference to this object so that method calls can be chained together.
"",}
Repsents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck, Snapshot, Upgrade.

@see 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"
},
"xmlnsNameSpaceUri" : 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> <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>\nThis is a convenience that creates an instance of the [%link\] avoiding the need to create one manually via [%link\#build()].\n\nWhen the [%link\Consumer\] completes, [%link\Builder\#build()] is called immediately and its result is passed to [%link\@param stepStatus\] a consumer that will call methods on [%link\Builder\#return\].

@see #stepStatus(String)

"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>
"@param stepStatus\ 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>
\nReturn Returns a reference to this object so that method calls can be chained together.\n@see #stepStatus(String)

"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>
\nReturn Returns a reference to this object so that method calls can be chained together.\n@see #stepStatus(String)

"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>
\nReturn Returns a reference to this object so that method calls can be chained together.\n@see #stepStatus(String)

"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>
\nReturn Returns a reference to this object so that method calls can be chained together.\n@see #stepStatus(String)

"deprecated" : false,
"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",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "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",
  "simple" : true,
  "timestampFormat" : null,
  "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>
@see UpgradeStatus",
  "setterMethodName" : "setStepStatus",
  "setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "stepStatus",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  }
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "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",
  "simple" : true,
  "timestampFormat" : null,
  "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>
@see UpgradeStatus",
  "setterMethodName" : "setStepStatus",
  "setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "stepStatus",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  }
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "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",
  "simple" : true,
  "timestampFormat" : null,
  "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>
@see UpgradeStatus",
  "setterMethodName" : "setStepStatus",
  "setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "stepStatus",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  }
},
"variableDeclarationType" : "String",
"variableName" : "stepStatus",
"variableType" : "String",
"documentation" : "<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> </p>",
"simpleType" : "String",
"variableSetterType" : "String"
],
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpgradeName",
"beanStyleSetterMethodName" : "setUpgradeName",
"c2jName" : "UpgradeName",
"c2jShape" : "UpgradeName",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;A string that describes the update briefly&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, @link String.Builder#build() is called immediately and its result is passed to @link upgradeName(String).&lt;\n&gt;\n@param upgradeName 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.&lt;\n@see upgradeName(String)\n",
"deprecated" : false,
"documentation" : "&lt;p&gt;A string that describes the update briefly&lt;/p&gt;\",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeName",
"fluentSetterDocumentation" : "&lt;p&gt;A string that describes the update briefly\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see upgradeName(String)\n",  
"getterDocumentation" : "&lt;p&gt;A string that describes the update briefly\n\n@return A string that describes the update briefly\n\n@see upgradeName(String)\n",  
"fluentSetterMethodName" : "upgradeName",
"getterDocumentation" : "&lt;p&gt;A string that describes the update briefly\n\n@return A string that describes the update briefly\n\n@see upgradeName(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": "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",
"simple": true,
"simpleType": "String",
"setterDocumentation": "&lt;p&gt;A string that describes the update briefly&lt;/p&gt;
@param upgradeName A string that describes the update briefly",
"setterMethodName": "setUpgradeName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "upgradeName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "upgradeName",
  "variableType": "String",
  "documentation": "&lt;p&gt;A string that describes the update briefly&lt;/p&gt;",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
}],
"membersAsMap": {
  "StepStatus": {
    "beanStyleGetterMethodName": "getStatusAsString",
    "beanStyleSetterMethodName": "setStepStatus",
    "c2jName": "StepStatus",
    "c2jShape": "UpgradeStatus",
    "defaultConsumerFluentSetterDocumentation": "&lt;p&gt;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>`

This is a convenience that creates an instance of the `{@link String.Builder}` without 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()}`.

A consumer that will call methods on `{@link String.Builder}` returns a reference to this object so that method calls can be chained together.

```java
@see #stepStatus(String)
```

"deprecated": false,
"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>`

```
@endpointDiscoveryId": false,
"enumType": "UpgradeStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "stepStatus",
"fluentEnumSetterMethodName": "stepStatus",
"fluentGetterMethodName": "stepStatusAsString",
"fluentSetterDocumentation": "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>`

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>`

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}`.

```
@see UpgradeStatus
```

"getterDocumentation": "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
```

"getterModel":

```
public String getStepStatus() {
  return stepStatusAsString();
}
```

"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" : "<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>
@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" : "<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>
@see UpgradeStatus",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpgradeName" : {
"beanStyleGetterMethodName" : "getUpgradeName",
"simple" : true,
"complexType" : "string",
"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>
@see UpgradeStatus"}
"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()].
When the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to
[ @link #upgradeName(String)].
@returns 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>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeName",
"fluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
@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" : "<p>A string that describes the update briefly</p>
@returns 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.",

"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" : "A string that describes the update briefly",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpgradeStep" : {
  "beanStyleGetterMethodName" : "getUpgradeStepAsString",
  "beanStyleSetterMethodName" : "setUpgradeStep",
  "c2jName" : "UpgradeStep",
  "c2jShape" : "UpgradeStep",
  "defaultValueConsumerFluentSetterDocumentation" : "<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)].
@returns Returns a reference to this object so that method calls can be chained together.
@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>
@endpointDiscoveryId" : false,
  "enumType" : "UpgradeStep",
  "eventHeader" : false,
  "eventPayload" : false,
<li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li>

@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

"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 Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #upgradeStepAsString(String)}.

@throws NullPointerException when upgradeStep is null.

@throws IllegalArgumentException if upgradeStep is not a valid value.

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)}.

@throws NullPointerException when upgradeStep is null.

@throws IllegalArgumentException if upgradeStep is not a valid value.

@return Returns a reference to this object so that method calls can be chained together.
"@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"

"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

"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 Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #upgradeStepAsString(String)}.

@throws NullPointerException when upgradeStep is null.

@throws IllegalArgumentException if upgradeStep is not a valid value.

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)}.

@throws NullPointerException when upgradeStep is null.

@throws IllegalArgumentException if upgradeStep is not a valid value.

@return Returns a reference to this object so that method calls can be chained together.
"@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"

"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

"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 Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #upgradeStepAsString(String)}.

@throws NullPointerException when upgradeStep is null.

@throws IllegalArgumentException if upgradeStep is not a valid value.

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)}.

@throws NullPointerException when upgradeStep is null.

@throws IllegalArgumentException if upgradeStep is not a valid value.

@return Returns a reference to this object so that method calls can be chained together.
"@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"
upgradeStep Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 

- PreUpgradeCheck
- Snapshot
- Upgrade

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`.

@return Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
- PreUpgradeCheck
- Snapshot
- Upgrade

@see UpgradeStep

@return Returns a reference to this object so that method calls can be chained together.

@see 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> <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> 
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)]. 
@see #stepStatus(String)
@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> 
@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> 
@endpointDiscoveryId" : 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> 
@see UpgradeStatus
@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStatus"
"fluentSetterMethodName": "stepStatus",
"getterDocumentation": "<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> 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] if 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",
"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"
"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><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>
"simple": "String",
"variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
},
{
"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#builder()}. When 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": "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
@para 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",
"getterModel": {
"returnType": "String",
"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": "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#builder()}. When 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": "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
@para 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",
"getterModel": {
"returnType": "String",
"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
}
"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><p>@param upgradeName A string that describes the update briefly</p>",
"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"
"InstanceCountLimits" : {  
  "c2jName" : "InstanceCountLimits",  
  "customization" : {  
    "artificialResultWrapper" : null,  
    "skipGeneratingMarshaller" : false,  
    "skipGeneratingModelClass" : false,  
    "skipGeneratingUnmarshaller" : false,  
    "staxTargetDepthOffset" : 0  
  },  
  "deprecated" : false,  
  "documentation" : "<p> InstanceCountLimits represents the limits on number of instances that be created in Amazon Elasticsearch 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" : "getMinimumInstanceCount",  
  "camelCasePropertyName" : "minimumInstanceCount",  
  "javaType" : "Integer",  
  "result" : false  
}  
],  
"wrapper" : false}
"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 [{@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 #minimumInstanceCount(Integer)}].

@see #minimumInstanceCount(Integer)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "minimumInstanceCount",
"fluentSetterMethodName" : "minimumInstanceCount",
"getterDocumentation" : "Returns the value of the MinimumInstanceCount property for this object.

@return The value of the MinimumInstanceCount property for this object.

@Getter

The value of the MinimumInstanceCount property for this object.

Setter

Returns a reference to this object so that method calls can be chained together.

Sets the value of the MinimumInstanceCount property for this object.

The new value for the MinimumInstanceCount property for this object.

When the [{@link Consumer}] completes, [{@link Integer.Builder#build()}] is called immediately and its result is passed to [{@link #minimumInstanceCount(Integer)}].

@see #minimumInstanceCount(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" : "MinimumInstanceCount",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "MinimumInstanceCount",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
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"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."

"setterMethodName" : "setMinimumInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "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.

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 #maximumInstanceCount(Integer)\}\.\n@\param maximumInstanceCount 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 #maximumInstanceCount(Integer)"

"deprecated" : false,
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"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maximumInstanceCount",
"fluentSetterDocumentation" : "Sets the value of the MaximumInstanceCount property for this
object.\n@param maximumInstanceCount The new value for the MaximumInstanceCount property for
this object.\n@return 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.\n@return The value of the MaximumInstanceCount property for this object.",
"getterModel" : {
 "returnType" : "Integer",
 "documentation" : null
},
"http" : {
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 "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",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.\n@param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.\n@return Returns a reference to this object so that method calls can be chained together.".
"setterMethodName" : "setMaximumInstanceCount",
"setterModel" : {
 "variableDeclarationType" : "Integer",
 "variableName" : "maximumInstanceCount",
 "variableType" : "Integer",
 "documentation" : null,
 "simpleType" : "Integer",
 "variableSetterType" : "Integer"
"simple": true,
"timestampFormat": null,
"variable": {
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  "variableName": "maximumInstanceCount",
  "variableType": "Integer",
  "documentation": "",
  "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. 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 #maximumInstanceCount\} a consumer that will call methods on \{@link Integer.Builder\}\n\n@see #maximumInstanceCount\n\n@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.\n\n@see #maximumInstanceCount\n\nThe new value for the MaximumInstanceCount property for this object.\n\n@return 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
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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" : "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",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.

@param
maximumInstanceCount The new value for the MaximumInstanceCount property for this object."

"setterMethodName" : "setMaximumInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maximumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
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  "variableType" : "Integer",
  "documentation" : "",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlnsNameSpaceUri" : null
},
"MinimumInstanceCount" : {
  "beanStyleGetterMethodName" : "getMinimumInstanceCount",
  "getterMethodName" : "getMinimumInstanceCount",
  "getterModel" : {
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    "variableName" : "minimumInstanceCount",
    "variableType" : "Integer",
    "documentation" : "",
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
  },
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
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    "variableName" : "minimumInstanceCount",
    "variableType" : "Integer",
    "documentation" : "",
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
  },
  "xmlnsNameSpaceUri" : null
}
"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 {@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 #minimumInstanceCount(Integer)}.
@returns a reference to this object so that method calls can be chained together."
@see #minimumInstanceCount(Integer)",
"deprecated" : false,
"documentation" : "",
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"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "minimumInstanceCount",
"fluentSetterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object. The new value for the MinimumInstanceCount 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 MinimumInstanceCount property for this object.
@getterModel" : {
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    "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" : "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.",
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  "variableDeclarationType" : "Integer",
  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
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  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "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 [@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 #minimumInstanceCount(Integer)].

@\param minimumInstanceCount 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 #minimumInstanceCount(Integer)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventType" : null,
  "eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "minimumInstanceCount",
"fluentSetterDocumentation" : "Sets the value of the MinimumInstanceCount property for this
object.\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",
"fluentSetterMethodName" : "minimumInstanceCount",
"getterDocumentation" : "Returns the value of the MinimumInstanceCount property for this object.\n",
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
}
},
"http" : {
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  "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,
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"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MinimumInstanceCount",
" sensitive" : false,
"setterDocumentation" : "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\n@return Returns a reference to this object so that method calls can be chained together."
,"setterMethodName" : "setMinimumInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : 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",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.\n\n@param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.",
"setterMethodName" : "setMaximumInstanceCount",
"setterModel" : {
"variableDeclarationType" : "Integer",
"variableName" : "maximumInstanceCount",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
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"variableName" : "maximumInstanceCount",
"variableType" : "Integer",
"documentation" : "",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "InstanceCountLimits",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "InstanceCountLimits",
  "variableName" : "instanceCountLimits",
  "variableType" : "InstanceCountLimits",
  "documentation" : null,
  "simpleType" : "InstanceCountLimits",
  "variableSetterType" : "InstanceCountLimits"
},
"wrapper" : false
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"InstanceLimits" : {
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  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>InstanceLimits represents the list of instance related 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" : "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
When the `@link Consumer` completes, `@link InstanceCountLimits.Builder#build()` is called immediately and its result is passed to `@link InstanceCountLimits(InstanceCountLimits)`.

`@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" : "",
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"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
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"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.

`@return The value of the InstanceCountLimits property for this object.".

"getterModel" : {
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  "documentation" : null
},
"http" : {
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  "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",
"marshalLocation" : "PAYLOAD",
"marshalLocationName" : "InstanceCountLimits",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceCountLimits",
"uri" : false
```
"name" : "InstanceCountLimits",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.

@param instanceCountLimits The new value for the InstanceCountLimits property for this object.
",
"setterMethodName" : "setInstanceCountLimits",
"setterModel" : {
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  "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
},
"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 [@link InstanceCountLimits.Builder] avoiding the need to create one manually via [@link InstanceCountLimits.Builder#builder()].

When the [@link Consumer] completes, [@link InstanceCountLimits.Builder#build()] is called immediately and its result is passed to [@link InstanceCountLimits(InstanceCountLimits)].

@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.

@param instanceCountLimits The new value for the InstanceCountLimits property for this object.
",
  "setterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.

@param instanceCountLimits The new value for the InstanceCountLimits property for this object.
",
  "setterMethodName" : "setInstanceCountLimits",
  "setterModel" : {
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    "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
  }
}
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.

The value of the InstanceCountLimits property for this object.

"getterModel" : {
"returnType" : "InstanceCountLimits",
"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" : "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.

@param

instanceCountLimits

The new value for the InstanceCountLimits property for this object.

"setterMethod Name" : "setInstanceCountLimits",
"setterModel" : {
"variableDeclarationType" : "InstanceCountLimits",
"variableName" : "instanceCountLimits",
"variableType" : "InstanceCountLimits",
"documentation" : null,
"simpleType" : "InstanceCountLimits",
"variableSetterType" : "InstanceCountLimits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
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  "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. This is a convenience that creates an instance of the [ @link InstanceCountLimits.Builder ] avoiding the need to create one manually via [ @link InstanceCountLimits#builder() ]. When the [ @link Consumer ] completes, [ @link InstanceCountLimits.Builder#build() ] is called immediately and its result is passed to [ @link InstanceCountLimits(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" : "",
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  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "instanceCountLimits",
  "fluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object. 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.@return The value of the InstanceCountLimits property for this object.",
  "getterModel" : {
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    "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.

@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" : "",
  "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, 
"eventStream" : 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, 
"unnmarshallers" : 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" : "LimitExceededException",
],
"wrapper" : false
],
"LimitExceededException" : {
"c2jName" : "LimitExceededException",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "An exception for trying to create more than allowed resources or sub-resources. Gives
http status code of 409.",
"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 it's role. <br/> Limits contains following <br/> <code>&lt;a&gt;StorageTypes.&lt;/a&gt; &lt;/code&gt; <code>&lt;a&gt;InstanceLimits&lt;/a&gt; &lt;/code&gt; and &lt;code&gt;<br/>&lt;a&gt;AdditionalLimits&lt;/a&gt; &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" : "getStorageTypes",
   "beanStyleSetterMethodName" : "setStorageTypes",
   "c2jName" : "StorageTypes",
   "c2jShape" : "StorageTypeList",
   "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;StorageType represents the list of storage related types and attributes that are available for given InstanceType. &lt;/p&gt;&lt;ul&gt;&lt;li&gt;This is a convenience that creates an instance of the &lt;link List&lt;StorageType&gt;.Builder&lt;/link&gt; avoiding the need to create one manually via &lt;link List&lt;StorageType&gt;#builder()&lt;/link&gt;.&lt;/li&gt;&lt;li&gt;When the &lt;link Consumer&gt; completes, &lt;link List&lt;StorageType&gt;.Builder#build()&lt;/link&gt; is called immediately and its result is passed to &lt;link #storageTypes(List&lt;StorageType&gt;)&lt;/link&gt;.&lt;link @param storageTypes a consumer that will call methods on &lt;link List&lt;StorageType&gt;.Builder&lt;/link&gt;&lt;/link&gt;.&lt;link return Returns a reference to this object so that method calls can be chained together.&lt;link @see #storageTypes(List&lt;StorageType&gt;)&gt;&lt;/p&gt;&lt;/li&gt;&lt;/ul&gt;&lt;p&gt;"deprecated" : false,
   "documentation" : "&lt;p&gt;StorageType represents the list of storage related types and attributes that are available for given InstanceType. &lt;/p&gt;",
   "endpointDiscoveryId" : false,
   "enumType" : null,
   "eventHeader" : false,
   "eventPayload" : false,
   "fluentEnumGetterMethodName" : null,
   "fluentEnumSetterMethodName" : null,
   "fluentGetterMethodName" : "storageTypes",
   "fluentSetterDocumentation" : "&lt;p&gt;StorageType represents the list of storage related types and attributes that
are available for given InstanceType.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "storageTypes",
"getterDocumentation" : "StorageType represents the list of storage related types and attributes that are available for given InstanceType. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@returns 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,
  "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 StorageType.Builder avoiding the need to create one manually via StorageType.Builder(). When the Consumer completes, StorageType.Builder#build() is called immediately and its result is passed to StorageType.Builder#member a consumer that will call methods on StorageType.Builder#member. 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" : "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" : 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" : "\nStorageType represents the list of storage related types and attributes that are available for given InstanceType. \n\tparam storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType.\n",
"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.\n\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()].\n\nWhen the [@link Consumer] completes, [@link InstanceLimits.Builder#build()] is called immediately and its result is passed to [@link #instanceLimits(InstanceLimits)].\n\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.\n\n@see #instanceLimits(InstanceLimits) The new value for the InstanceLimits property for this object.\n\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\n@see #instanceLimits(InstanceLimits) 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.\n@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" : "",
  "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>. </p>\nThis is a convenience that creates an
"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#builder()}. When the {@link Consumer} completes, {@link AdditionalLimit.Builder#build()} is called immediately and its result is passed to {@link #member(AdditionalLimit)}.
@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.
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(AdditionalLimit)",
    "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,
""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#builder()}. When the {@link Consumer} completes, {@link AdditionalLimit.Builder#build()} is called immediately and its result is passed to {@link #member(AdditionalLimit)}.
@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.
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(AdditionalLimit)",
    "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" : "",
  "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> <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>.

"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>

"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 List<AdditionalLimit> additionalLimits(List<AdditionalLimit>)}. 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 List<AdditionalLimit> 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>

"enumType" : null,
"eventTypeHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "additionalLimits",
"fluentSetterDocumentation" : "&lt;p&gt; List of additional limits that are specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; . "&lt;/p&gt;

@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "additionalLimits",
"getterDocumentation" : "&lt;p&gt; List of additional limits that are specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; . 

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.&lt;/p&gt;

@returns List of additional limits that are specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; .",
"getterModel" : {
"returnType" : "java.util.List&lt;AdditionalLimit&gt;",
"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()}. When the { @link Consumer} completes, { @link

AdditionalLimit.Builder#build()} is called immediately and its result is passed to {
@link
#member(AdditionalLimit).@param member a consumer that will call methods on {
@link
AdditionalLimit.Builder}.@return Returns a reference to this object so that method calls can be chained together.}@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@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" : "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.
",
"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,
"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": "List of additional limits that are specific to a given InstanceType and for each of it's <code><a>InstanceRole</a></code>.\n\n@<a>param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's <code><a>InstanceRole</a></code></code>,
",
"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
",
"InstanceLimits" : {
  "beanStyleGetterMethodName" : "getInstanceLimits",
  "beanStyleSetterMethodName" : "setInstanceLimits",
  "c2jName" : "InstanceLimits",
  "c2jShape" : "InstanceLimits",
  "defaultValueConsumerFluentSetterDocumentation" : "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#builder()}. When the @link Consumer@ completes, @link
#instanceLimits(InstanceLimits)@ called immediately and its result is passed to @link
#instanceLimits(InstanceLimits).@ 
@param instanceLimits a consumer that will call methods on @link
InstanceLimits.Builder@.
@return Returns a reference to this object so that method calls can be chained
together.@
@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. 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" : {
"simpleType" : "List<AdditionalLimit>“, 
"variableSetterType" : "java.util.Collection<AdditionalLimit>“ 
}
}
"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.\n\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" : "",
  "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. </p>\nThis 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()}].\nWhen the [{@link Consumer} completes, [{@link List<StorageType>.Builder#build()}] is called immediately and its result is passed to [{@link #storageTypes(List<StorageType>)}].\n\n@param storageTypes a consumer that will call methods on [{@link List<StorageType>.Builder}]\n@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>\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.
@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>\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n@return StorageType represents the list of storage related types and attributes that are available for given InstanceType.\ngetterModel" : {
  "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)
@return Returns a reference to this object so that method calls can be chained together.

@deprecated documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethod" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@see #member(StorageType)

@return Returns a reference to this object so that method calls can be chained together.

@getterMethod" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

The value of the Member property for this object.

@get" : [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" : "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,
StorageType represents the list of storage related types and attributes that are available for given InstanceType.

```java
Set<StorageType> storageTypes = new HashSet<StorageType>();
```

This is a convenience that creates an instance of the `List<StorageType>` avoiding the need to create one manually via `List<StorageType>#builder()`. When the `List<StorageType>#builder()` is called immediately and its result is passed to `List<StorageType>(storageTypes)`, a consumer that will call methods on `List<StorageType>.Builder` is returned. Returns a reference to this object so that method calls can be chained.
StorageType represents the list of storage related types and attributes that are available for given InstanceType. 

```java
public class StorageType {
    @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.

    @getterDocumentation StorageType represents the list of storage related types and attributes that are available for given InstanceType. 
    @return StorageType represents the list of storage related types and attributes that are available for given InstanceType.
}```
"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, the method in the class @link StorageType.Builder#build() is called immediately and its result is passed to the method in the class @link StorageType.Builder#build().

@see #member(@link StorageType)

@return Returns a reference to this object so that method calls can be chained together.

@see #member(@link StorageType)

The new value for the Member property for this object.

@returns a reference to this object so that method calls can be chained together.

@see #member(@link StorageType)

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" : "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
StorageType represents the list of storage related types and attributes that are available for given InstanceType.

<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>
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",

"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.",

"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",
    "variableType" : "InstanceLimits"
<p>List of additional limits that are specific to a given InstanceType and for each of it's <a>InstanceRole</a>. This is a convenience that creates an instance of the <a>List<AdditionalLimit>.Builder</a> avoiding the need to create one manually via <a>List<AdditionalLimit>#builder()</a>. When the <a>Consumer</a> completes, <a>List<AdditionalLimit>.Builder#build()</a> is called immediately and its result is passed to <a>#additionalLimits(List<AdditionalLimit>)</a>.<br>
</p>

@deprecated

<p>List of additional limits that are specific to a given InstanceType and for each of it's <a>InstanceRole</a>.<br>
Attempts to modify the collection returned by this method will result in an <a>UnsupportedOperationException</a>.<br>
</p>

@gettersetters
"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": "",
  "simpleType": "AdditionalLimit",
  "variableSetterType": "AdditionalLimit"
},
"xmlnsSpaceUri": 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> <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> .",
"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
}]
,"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,
    "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" : "ListDomainNames",
        "locationName" : null,
        "requestUri" : "/2015-01-01/domain",
        "target" : null,
        "verb" : "GET",
        "xmlNameSpaceUri" : null
    },
    "members" : [ ],
    "membersAsMap" : { },
    "nonStreamingMembers" : [ ],
    "requestSignerAware" : false,
    "requestSignerClassFqcn" : null,
    "required" : null,
    "shapeName" : "ListDomainNamesRequest"
"simpleMethod": true,
"unmarshaller": null,
"variable": {
"variableDeclarationType": "ListDomainNamesRequest",
"variableName": "listDomainNamesRequest",
"variableType": "ListDomainNamesRequest",
"documentation": null,
"simpleType": "ListDomainNamesRequest",
"variableSetterType": "ListDomainNamesRequest"
},
"wrapper": false
},
"ListDomainNamesResponse": {
"c2jName": "ListDomainNamesResponse",
"customization": {
"artificialResultWrapper": null,
"skipGeneratingMarshaller": false,
"skipGeneratingModelClass": false,
"skipGeneratingUnmarshaller": false,
"staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "The result of a <code>ListDomainNames</code> operation. Contains the names of all
Elasticsearch domains owned by this account.",
"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": "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()}. When the { @link Consumer} completes, { @link List<DomainInfo>.Builder#build()} is called immediately and its result is passed to { @link #domainNames(List<DomainInfo>)}. Returns a reference to this object so that method calls can be chained together.
@see #domainNames(List<DomainInfo>)"
"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>
Attempts to modify the collection returned by this method will result in a 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 [Consumer] completes, [DomainInfo.Builder#build()] is called immediately and its result is passed to [DomainInfo#member()].

@return Returns a reference to this object so that method calls can be chained together.

@see #member()

"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" : "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."
@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" : 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" : "List of Elasticsearch domain names."
@param domainNames List of Elasticsearch domain names."
"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "DomainInfo",
  "documentation" : null,
  "simpleType" : "DomainInfo",
  "variableSetterType" : "DomainInfo"
},
"simple" : false,
"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
},
"membersAsMap" : {
"DomainNames" : {
"beanStyleGetterMethodName" : "getDomainNames",
"beanStyleSetterMethodName" : "setDomainNames",
"c2jName" : "DomainNames",
"c2jShape" : "DomainInfoList",
"defaultValueConsumerFluentSetterDocumentation" : "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()}. When the {@link Consumer} completes, {@link List<DomainInfo>.Builder#build()} is called immediately and its result is passed to {@link #domainNames(List<DomainInfo>)}.

@see #domainNames(List<DomainInfo>)",
"deprecated" : false,
"documentation" : "List of Elasticsearch domain names.",
"endpointDiscoveryId" : false,
"enumType" : null,
"endpointHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainNames",
"fluentSetterDocumentation" : "List of Elasticsearch domain names.

@see #domainNames(List<DomainInfo>)",
"getterModel" : {
"returnType" : "java.util.List<DomainInfo>",
"getterDocumentation" : "List of Elasticsearch domain names.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@see #domainNames(List<DomainInfo>)",
"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.
@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.
@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.
@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)}
"}
calls can be chained together.

*getterMethod* : "member",
*getterDocumentation* : "Returns the value of the Member property for this object.

*return* The value of the Member property for this object.

*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,
  *unmarshalLocationName* : "member",
  *uri* : false
},
*idempotencyToken* : false,
*isBinary* : false,
*jsonValue* : false,
*list* : false,
*listModel* : null,
*map* : false,
*mapModel* : null,
*marshallingType* : "SDK_POJO",
*name* : "Member",
*sensitive* : false,
*setterMethod* : "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
}
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainNames",
  "beanStyleSetterMethodName" : "setDomainNames",
  "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 #domainNames(List<DomainInfo>)}. 

@link List<DomainInfo> a consumer that will call methods on { @link List<DomainInfo>.Builder}@link List<DomainInfo>.Builder@return Returns a reference to this object so that method calls can be chained together.
@link List<DomainInfo>#domainNames(List<DomainInfo>)"
, 
  "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.
@link List<DomainInfo>#domainNames(List<DomainInfo>)"
, 
  "fluentSetterMethodName" : "domainNames",
  "getterDocumentation" : "<p>List of Elasticsearch domain names.</p>
@link List<DomainInfo>#domainNames(List<DomainInfo>)
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
@return List of Elasticsearch domain names.
@link List<DomainInfo>#domainNames(List<DomainInfo>)"
, 
  "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",
    "defaultValueConsumerFluentSetterDocumentation" : "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.Builder#member(DomainInfo)].

The new value for the Member property for this object is returned. Returns a reference to this object so that method calls can be chained together.

*param member a consumer that will call methods on [DomainInfo.Builder]*

@see #member(DomainInfo)
@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 is returned.

*param member The new value for the Member property for this object.*

@return The value of the Member property for this object.
",
  "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" : "DomainInfo",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "httpMethod" : null,
    "httpOperationId" : null,
    "httpPayloadAttribute" : null,
    "httpPayloadName" : null,
    "httpPayloadType" : null,
    "httpResponseAttribute" : null,
    "httpResponseName" : null,
    "httpResponseType" : null
  },
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "DomainInfo",
    "defaultValueConsumerFluentSetterDocumentation" : "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#build()]. When the [Consumer] completes, [DomainInfo.Builder#build()] is called immediately and its result is passed to [DomainInfo.Builder#member(DomainInfo)].

The new value for the Member property for this object is returned. Returns a reference to this object so that method calls can be chained together.

*param member a consumer that will call methods on [DomainInfo.Builder]*

@see #member(DomainInfo)
@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 is returned.

*param member The new value for the Member property for this object.*

@return The value of the Member property for this object.
",
  "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" : "DomainInfo",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "httpMethod" : null,
    "httpOperationId" : null,
    "httpPayloadAttribute" : null,
    "httpPayloadName" : null,
    "httpPayloadType" : null,
    "httpResponseAttribute" : null,
    "httpResponseName" : null,
    "httpResponseType" : null
  }
}
"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" : "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>\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" : "<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" : "List<DomainNamesResponse>",
  "variableSetterType" : "ListDomainNamesResponse"
},
"wrapper" : false
}
"ListElasticsearchInstanceTypesRequest" : {
"c2jName" : "ListElasticsearchInstanceTypesRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "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" : "Version of Elasticsearch for which list of supported elasticsearch instance types are needed.

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()] is called immediately and its result is passed to [ElasticsearchVersion(String)].

@ See [ElasticsearchVersion(String)].
"deprecated" : false,
"documentation" : "Version of Elasticsearch for which list of supported elasticsearch instance types are needed.

@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>
@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>
\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@code
\n@param domainName a consumer that will call methods on @link String.Builder\n@see #domainName(String)
\n\n"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>
\n\n@endcode
,"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.\n@code
\n@param domainName Represents the name of the Domain that we are trying to modify.\n@see #domainName(String)
\n\n@endcode
,"xmlNameSpaceUri": null
}
together.

"fluuentSetterMethodName": "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>\n@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.",

"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. 
</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.",

"setterMethodName": "setDomainName",

"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
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.

Set this value to limit the number of results returned. Value provided must be greater than 30 else it won't be honored.
"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@\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>\n\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. ",
"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@\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,
"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)}].

@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 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",
  "documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>"
association.
  "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. 

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>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>

@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>

@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",
    "marshallLocationName" : "domainName",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "domainName",
    "unmarshallLocationName" : "domainName",
    "deprecate" : 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>

@see #domainName(String)
"}
"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 list of available Elasticsearch instance types when modifying 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 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" : "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.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchVersion" : {
  "beanStyleGetterMethodName" : "getElasticsearchVersion",
  "beanStyleSetterMethodName" : "setElasticsearchVersion",
  "c2jName" : "ElasticsearchVersion",
  "c2jShape" : "ElasticsearchVersionString",
  "defaultConsumerFluentSetterDocumentation" : "Version of Elasticsearch for which list of supported elasticsearch instance types 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 "}
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>

@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.

@see #elasticsearchVersion(String)"

"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>@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>
  @param maxResults a consumer that will call methods on <code>Integer.Builder</code>.
  @see #maxResults=Integer.Builder
  @return Returns a reference to this object so that method calls can be chained together.
  @see #maxResults=Integer"
},
"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>
  @param maxResults a consumer that will call methods on <code>Integer.Builder</code>.
  @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>"
"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 name="maxResults">
@return
"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>
@return
"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 name="maxResults">
@return
"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 won't be honored. </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 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}.
@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.
@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>
@see #nextToken(String)".,
"fluentSetterMethodName" : "nextToken",
"deprecated" : false,
"documentation" : "<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,
"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"}
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

Version of Elasticsearch for which list of supported elasticsearch instance types 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)}.

@see #elasticsearchVersion(String)

This object so that method calls can be chained together.

Version of Elasticsearch for which list of supported elasticsearch instance types are needed.

When the { @link String.Builder} returns a reference to this object so that method calls can be chained together.

Version of Elasticsearch for which list of supported elasticsearch instance types are needed.

Version of Elasticsearch for which list of supported elasticsearch instance types are needed.

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Version of Elasticsearch for which list of supported elasticsearch instance types are needed.

Version of Elasticsearch for which list of supported elasticsearch instance types are needed.

Version of Elasticsearch for which list of supported elasticsearch instance types are needed.
"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><p>@param elasticsearchVersion Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
"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,
}
"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. 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" : "<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.\n@return 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. </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.",
"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. </p><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" : "<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 {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 #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

"deprecated" : false,
"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>",
"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 won't be honored. </p>

@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it won't 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 won't be honored. </p>

@return Set this value to limit the number of results returned. Value provided must be greater than 30 else it won't 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,
  "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\>\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\@return Returns a reference to this object so that method calls can be chained together. \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.",
"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",
"variableName" : "nextToken"}
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

Container for the parameters returned by `<a>ListElasticsearchInstanceTypes</a>` operation.

Container for the parameters returned by `<a>ListElasticsearchInstanceTypes</a>` operation.
"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": "<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<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 #elasticsearchInstanceTypesAsStrings(List<String>)}. @param elasticsearchInstanceTypes 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.
"deprecated": false,
"documentation": "<p>List of instance types supported by Amazon Elasticsearch service for given <code><a>ElasticsearchVersion</a></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><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.

@returns List of instance types supported by Amazon Elasticsearch service for given <code><a>ElasticsearchVersion</a></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" : "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    This is a convenience that creates an instance of the \n    \{@link String.Builder\} avoiding the need to create one manually \n    \via \{@link String#builder()\}.\n    \n    When the \{@link Consumer\} completes, \{@link String.Builder#build()\} \n    is called immediately and its result is passed to \{@link
    #memberAsString(String)\}.\n    \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    \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    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    \n    When the \{@link Consumer\} completes, \{@link String.Builder#build()\} \is called immediately and its result is passed to \{@link
    #memberAsString(String)\}.\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.\n    \n    @see ESPartitionInstanceType\n    \n    @param member\n    \n    @return Returns a reference to this object so that method calls can be chained together.\n    \n    @see ESPartitionInstanceType",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n    \n    \n    If the service returns an enum value that is not available in the current SDK version, \{@link #member\} will return \{@link

"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" : "List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>
@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" : "List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>
@param elasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>",
  "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)].
@return Returns a reference to this object so that method calls can be chained together.
@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>
@param nextToken a consumer that will call methods on [@link String.Builder]
@see #nextToken(String)",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<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.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<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>
@return 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)",
"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" : "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."
@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" : "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."
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "ElasticsearchInstanceTypes" : {
    "beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
    "beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
    "c2jName" : "ElasticsearchInstanceTypes",
    "c2jShape" : "ElasticsearchInstanceTypesList",
    "defaultConsumerFluentSetterDocumentation" : "List of instance types supported by Amazon Elasticsearch service for given <code>&lt;a&gt;ElasticsearchVersion&lt;/a&gt; \</code>
This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link
When the [@link Consumer] completes, [@link List<String>.Builder#build()] is called immediately and its result is passed to [@link #elasticsearchInstanceTypesAsStrings(List<String>)].

@param elasticsearchInstanceTypes 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.

```java
ElasticsearchVersion

@endpointDiscoveryId
.enumType
eventHeader
.eventPayload
.fluentEnumGetterMethodName
.fluentEnumSetterMethodName
.fluentGetterMethodName
.fluentSetterDocumentation
.getterDocumentation
.getterModel
.http
.idempotencyToken
.isBinary
.jsonValue
.list

"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,
"eventType": 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>
@param elasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</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>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</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>&lt;a&gt;ElasticsearchVersion&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": "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 [@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 #memberAsString(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" : "ESPartitionInstanceType",
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : "member",
        "fluentEnumSetterMethodName" : "member",
        "fluentGetterMethodName" : "memberAsString",
        "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThe new value for the Member property for this object.\n@see ESPartitionInstanceType\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, [@link #member] will return [@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION].\n\nThe raw value returned by the service is available from [@link #memberAsString].\n\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.\n@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>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</code> List of instance types supported by Amazon Elasticsearch service for given <code>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</code> ",
"setterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"setterModel" : {
    "variableDeclarationType" : "java.util.List&lt;String&gt;",
    "variableName" : "elasticsearchInstanceTypes",
    "variableType" : "java.util.List&lt;String&gt;",
    "documentation" : null,
    "simpleType" : "List&lt;String&gt;",
    "variableSetterType" : "java.util.Collection&lt;String&gt;"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List&lt;String&gt;",
    "variableName" : "elasticsearchInstanceTypes",
    "variableType" : "java.util.List&lt;String&gt;",
    "documentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</code> ",
    "simpleType" : "List&lt;String&gt;",
    "variableSetterType" : "java.util.Collection&lt;String&gt;"
},
"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 [@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)].
@see #nextToken(String)",
    "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.
"
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<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.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<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>
@return 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",
"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.",
"setterModel" : {},
"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" : "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> \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 ElasticsearchInstanceTypesAsStrings(List<String>)}.\n\n@link @param ElasticsearchInstanceTypes a consumer that will call methods on { @link List<String>.Builder}\n\n@link @return Returns a reference to this object so that method calls can be chained together.\n@link @see ElasticsearchInstanceTypesWithStrings(List<String>)",
  "deprecated" : false,
  "documentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code><a>ElasticsearchVersion</a></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><a>ElasticsearchVersion</a></code> </p>",
  "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>",
  "deprecated" : false,
  "documentation" : null,
  "simpleType" : null,
  "variableSetterType" : "String"
}].

"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
}
supported by Amazon Elasticsearch service for given `<code>` <code>ElasticsearchVersion</code>`</code>. 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>` <code>ElasticsearchVersion</code>`</code> `<code>`

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>` <code>ElasticsearchVersion</code>`</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" : "ElasticsearchInstanceTypes",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchInstanceTypes",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : true,

"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. 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)}. A convenient way to create a consumer that will call methods on {
link String.Builder}

@see #member(String)
"deprecated" : false,

"documentation" : ""

Open Source Used In MSX SD-WAN Service Pack 4.0.0 9693
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclaratio
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.List<String>",
"variableName": "elasticsearchInstanceTypes",
"variableType": "java.util.List<String>",
"documentation": "List of instance types supported by Amazon Elasticsearch service for given <code>ElasticsearchVersion</code>",
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
},
"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.
<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().}.
<br>When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}. <br>@param nextToken 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 #nextToken(String)",
"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.
<br>"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.
<br>@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.
<br>@return 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.
<br>@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.
<br>@return 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
},
"Open Source Used In MSX SD-WAN Service Pack 4.0.0 9696
"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",
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"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. &lt;/p&gt;\n@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. &lt;/p&gt;",
  "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><a>ListElasticsearchVersions</a></code> operation. Use <code><a>MaxResults</a></code> to control the maximum number of results to retrieve in a single call. Use <code><a>NextToken</a></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" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
Value provided must be greater than 10 else it wont be honored. 
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>
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
"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>
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. 
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" : {
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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",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"敏感" : 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 wont be honored. </p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
{
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken"}
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the NextToken property for this object. The new value for the NextToken property for this object.",
"setterMethodName" : "setNextToken",
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    "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
],
"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 Integer.Builder#build()} completes, the result is passed to the consumer that will call methods on the result. 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": {
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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",
    "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
},
"NextToken" : {
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object.\n
This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder#build()].\n
When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [nextToken(String)].\n
@return Returns a reference to this object so that method calls can be chained together.\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
@param nextToken The new value for the NextToken property for this object.\n
@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.\n
@return The value of the NextToken property for this object."
  "getterModel" : {
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    "documentation" : null
  },
  "http" : {
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"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\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" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null}
Set this value to limit the number of results returned. Value provided must be greater than 10 else it won't be honored. 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().

@see maxResults(Integer)
"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 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. 
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 [StringBuilder]
nextToken a consumer that will call methods on [StringBuilder] 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.",
"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
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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" : "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": null,
"shapeName": "ListElasticsearchVersionsRequest",
"simpleMethod": true,
"unmarshaller": null,
"variable": {
  "variableDeclarationType": "ListElasticsearchVersionsRequest",
  "variableName": "listElasticsearchVersionsRequest",
  "variableType": "ListElasticsearchVersionsRequest",
  "documentation": null,
  "simpleType": "ListElasticsearchVersionsRequest",
  "variableSetterType": "ListElasticsearchVersionsRequest"
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"wrapper": false
},
"ListElasticsearchVersionsResponse": {
  "c2jName": "ListElasticsearchVersionsResponse",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "<p> Container for the parameters for response received from <code><a>ListElasticsearchVersions</a> </code> operation. </p>"},

"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
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"hasHeaderMember" : false,
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"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 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 {@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 #elasticsearchVersions(List<String>)}`. When calling methods on a consumer that will call methods on {@link List<String>#builder()}},
  "@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. The new value for the ElasticsearchVersions property for this object. 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 #elasticsearchVersions(List<String>)",
  "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.
  @return The value of the ElasticsearchVersions property for this object.
  @return The value of the ElasticsearchVersions property for this object.
  @return The value of the ElasticsearchVersions property for this object."
]}
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : 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": {
    "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)}.

@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.

@overwrite 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.

@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" : "ElasticsearchVersions",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object.

@param
elasticsearchVersions The new value for the ElasticsearchVersions property for this object.
",
"setterMethodName" : "setElasticsearchVersions",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchVersions",
  "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" : "elasticsearchVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : 
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"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()\}.\n
When 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}@return Returns a reference to this object so that method calls can be chained together.\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}@param nextToken The new value for the NextToken property for this object.\n}@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.\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" : 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" : "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" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} ],
"membersAsMap" : {
"ElasticsearchVersions" : {
"beanStyleGetterMethodName" : "getElasticsearchVersions",
"beanStyleSetterMethodName" : "setElasticsearchVersions",
"c2jName" : "ElasticsearchVersions",
"c2jShape" : "ElasticsearchVersionList",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this
object.\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
#elasticsearchVersions(List<String>)}.\n@param elasticsearchVersions 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 #elasticsearchVersions(List<String>)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
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"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersions",
"fluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this
object.\n\n@param elasticsearchVersions The new value for the ElasticsearchVersions property for this
object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchVersions",

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"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": {
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  "additionalUnmarshallingPath": 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
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"idempotencyToken": false,

"isBinary": false,

"isPayload": 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."
  }
}

"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, the [String.Builder#build()] is called immediately and its result is passed to [String#member(String)].

@see #member(String)"

"deprecated": false,

"documentation": "",

"endpointDiscoveryId": false,

"enumType": null,

"eventId": false,

"eventPayload": false,

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"idempotencyToken": false,

"isBinary": false,

"isPayload": false,

"list": true,

"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
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    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object."
  }
}

"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, the [String.Builder#build()] is called immediately and its result is passed to [String#member(String)].

@see #member(String)"

"deprecated": false,

"documentation": "",

"endpointDiscoveryId": false,

"enumType": null,

"eventId": false,

"eventPayload": false,

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"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
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"http" : {
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"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,
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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.\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"
},
  "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,
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  "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.

@param nextToken The value of the NextToken property for this object.

@return Returns a reference to this object.

@see #nextToken(String)",
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  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
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  "marshallLocationName" : "NextToken",
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  "unmarshallLocationName" : "NextToken",
  "uri" : false}
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"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the NextToken property for this object.\n\n@\n\n@param nextToken The new value for the NextToken property for this object.\n\n@\n\n.setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
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"simple" : true,
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  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getElasticsearchVersions",
  "beanStyleSetterMethodName" : "setElasticsearchVersions",
  "c2jName" : "ElasticsearchVersions",
  "c2jShape" : "ElasticsearchVersionList",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object.\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 ElasticsearchVersions(List<String>)}.\n\n@\n\n@param elasticsearchVersions 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.\n\n@see #elasticsearchVersions(List<String>)",
  "deprecated" : false,
"documentation" : "",
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"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethod" : "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.
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return The value of the ElasticsearchVersions property for this object.",
"getterModel" : {
  "returnType" : "java.util.List<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" : "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" : {
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchVersionString",
    "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))`. `@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.

```
"deprecated" : false,
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"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
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"http" : {
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"greedy" : false,
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"marshallLocationName" : "member",
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"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
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"listModel" : null,
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"mapModel" : null,
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"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
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"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",
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@return The value of the Member property for this object."

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"isPayload" : false,
"isStreaming" : false,
"location" : null,
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"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
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"jsonValue" : false,
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"name" : "Member",
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@param member The new value for the Member property for this object."
"setterMethodName" : "setMember",
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  "simpleType" : "String",
  "variableSetterType" : "String"
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  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
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"xmlNameSpaceUri" : null
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"memberLocationName" : null,
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"map" : false,
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"simple" : true,
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"templateType" : "java.util.List<String>
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"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ElasticsearchVersions",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object.

@param elasticsearchVersions The new value for the ElasticsearchVersions property for this object."
"setterMethodName" : "setElasticsearchVersions",
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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,
"variable": {
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"variableName": "elasticsearchVersions",
"variableType": "java.util.List<String>",
"documentation": "",
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getNextToken",
"beanStyleSetterMethodName": "setNextToken",
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"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)].
@see #nextToken(String)",
"deprecated": false,
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"fluentSetterDocumentation": "Sets the value of the NextToken property for this object. The new value for the NextToken property for this object.
@see #nextToken(String)",
"fluentSetterMethodName": "nextToken",
"getterDocumentation": "Returns the value of the NextToken property for this object.
@see #nextToken(String)",
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"greedy" : false,
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"isPayload" : false,
"isStreaming" : false,
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"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
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"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the NextToken property for this object.\n\n@param nextToken The new value for the NextToken property for this object.",
"setterMethodName" : "setNextToken",
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  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
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"simple" : true,
"timestampFormat" : null,
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  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} 
]
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
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"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
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"variable" : {
  "variableDeclarationType" : "ListElasticsearchVersionsResponse",
  "variableName" : "listElasticsearchVersionsResponse",
  "variableType" : "ListElasticsearchVersionsResponse",
  "documentation" : null,
  "simpleType" : "ListElasticsearchVersionsResponse",
  "variableSetterType" : "ListElasticsearchVersionsResponse"
},
"wrapper" : false
}.
"ListTagsRequest" : {
  "c2jName" : "ListTagsRequest",
  "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,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : {
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    "locationName" : null,
    "requestUri" : "/2015-01-01/tags/",
    "target" : null,
    "verb" : "GET",
    "xmlNameSpaceUri" : null
  }
}
"members" : [ 
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  "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>
  "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,
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  "fluentSetterMethodName" : "arn",
  "fluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>";
  "getterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
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  "http" : {
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    "additionalUnmarshallingPath" : null,
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    "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": "Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.

\n\n\n@\param\n\nSpecify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
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"setterMethodName": "setArn",
"setterModel": {
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  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
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  "variableName": "arn",
  "variableType": "String",
  "documentation": "Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"membersAsMap": {
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  "beanStyleSetterMethodName": "setArn",
  "c2jName": "ARN",
  "c2jShape": "ARN",
  "defaultConsumerFluentSetterDocumentation": "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 #arn(String)}`.

@\param\n\nA consumer that will call methods on `{@link String.Builder}`

@\return\n\nReturns 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",
"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_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>\n\n@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
}
",
"nonStreamingMembers": [
  {
"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. 
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)>.
\n@return Returns a reference to this object so that method calls can be chained together.
\n@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",
"fluentSetterDocumentation": "<p>Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>"},
tags are attached that you want to view.

```java
@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.

"getterMethodName" : "arn",
"getterDocumentation" : "Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.

@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_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" : "Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.

@return 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" : "<p>The result of a <code>ListTags</code> operation. Contains tags for all requested Elasticsearch domains.</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" : "getTagList",
  "beanStyleSetterMethodName" : "setTagList",
  "c2jName" : "TagList",
  "c2jShape" : "TagList",
  "defaultConsumerFluentSetterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.\n\nThis 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() \}\n\nWhen 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.\n\n@see #tagList(List<Tag>)",
  "deprecated" : false,
  "documentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.\n\n@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\n@returns a reference to this object so that method calls can be chained together.\n\n@see #tagList(List<Tag>)",
  "fluentSetterMethodName" : "tagList",
  "getterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@returns a reference to this object so that method calls can be chained together.\n\n@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,
"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)}. @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,
  },
}
"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 \param tagList List of \code{Tag} for the requested 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" : null,
    "simpleType" : "List<Tag>",
    "variableSetterType" : "java.util.Collection<Tag>
  }
},
"xmlNameSpaceUri" : null
}],
"membersAsMap" : {
  "TagList" : {
    "beanStyleGetterMethodName" : "getTagList",
    "beanStyleSetterMethodName" : "setTagList",
    "c2jName" : "TagList",
    "c2jShape" : "TagList",
    "defaultConsumerFluentSetterDocumentation" : "<p> List of <code>Tag</code> for the requested 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>)\}.

@\return Returns a reference to this object so that method calls can be chained together.@see #tagList(List<Tag>)",
  "deprecated" : false,
  "documentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.</p>",

"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.

@returns 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.

@returns List of <code>Tag</code> for the requested Elasticsearch domain.

@returns Returns a reference to this object so that method calls can be chained together.

"getterModel" : {

"returnType" : "java.util.List<

"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
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)

The new value for the Member property for this object.

@see #member

The value of the Member property for this object.

@see #member
"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" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : null,
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : null,
  "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" : "\nList of <code>Tag</code> for the requested Elasticsearch domain.\n\n@\n@param tagList List of <code>Tag</code> for the requested Elasticsearch domain.\n",
"setterMethodName" : "setTagList",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<Tag>",
  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : null,
  "simple" : false,
"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> 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>)}.

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> 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.

@see #tagList(List<Tag>)";
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagList",
"fluentSetterDocumentation" : "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.

@see #tagList(List<Tag>)";
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getTagList",
"beanStyleSetterMethodName" : "setTagList",
"c2jName" : "TagList",
"c2jShape" : "TagList",
"defaultConsumerFluentSetterDocumentation" : "List of <code>Tag</code> for the requested Elasticsearch domain.

When the { @link Consumer} completes, { @link List<Tag>.Builder#build()} is called immediately and its result is passed to { @link #tagList(List<Tag>)}.

Returns a reference to this object so that method calls can be chained together.
@see #tagList(List<Tag>)";
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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,
"listMemberModel": {
  "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\nThis is a convenience that creates an instance of the [\@link Tag.Builder] avoiding the need to create one manually via \[@link Tag.Builder\].\n\nWhen the [\@link Consumer\] completes, [\@link Tag.Builder#build\] is called immediately and its result is passed to \[@link #member(Tag)\].\n\n@\param\ member a consumer that will call methods on \[@link Tag.Builder\]\n\n@returns Returns a reference to this object so that method calls can be chained together.\n@\see\ 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\nThe new value for the Member property for this object.\n\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\n@returns 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.\n\n@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": "List of Tag for the requested Elasticsearch domain.",
"setterMethodName": "setTagList",
"setterModel": {
  "variableDeclarationType": "java.util.List<Tag>",
  "variableName": "tagList",
  "variableType": "java.util.List<Tag>",
  "documentation": null,
  "simple": false,
  "variableSetterType": "java.util.Collection<Tag>"
},
"simple": false,
"variable": {
  "variableDeclarationType": "java.util.List<Tag>",
  "variableName": "tagList",
  "variableType": "java.util.List<Tag>",
  "documentation": "List of Tag for the requested Elasticsearch domain.",
  "simple": false,
  "variableSetterType": "java.util.Collection<Tag>"
},
"XMLNameSpaceUri": null
}

"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "ListTagsResponse"
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "ListTagsResponse",
  "variableName": "listTagsResponse",
  "variableType": "ListTagsResponse",
  "documentation": null,
  "simpleType": "ListTagsResponse",
  "variableSetterType": "ListTagsResponse"
},
"wrapper": false
},
"LogPublishingOption": {
  "c2jName": "LogPublishingOption",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "Log Publishing option that is set for given domain. Attributes and their details:
  * CloudWatchLogsLogGroupArn: ARN of the Cloudwatch log group to which log needs to be published.
  * Enabled: Whether the log publishing for given log type is enabled or not",
  "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": "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" : "",
"endpointDiscoveryId" : false,
"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
},
"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,
"unmarshallLocationName" : "CloudWatchLogsLogGroupArn",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CloudWatchLogsLogGroupArn"
"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": {
    "variableDeclarationType": "String",
    "variableName": "cloudWatchLogsLogGroupArn",
    "variableType": "String",
    "documentation": 
null,
    "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. </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.build() }. 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 }\n@\return Returns a reference to this object so that method calls can be chained together.\n@see #enabled(Boolean)",
"deprecated": false,
"documentation": "<p> Specifies whether given log publishing option is enabled or not. </p>",
"endpointDiscoveryId": 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>
@\param enabled Specifies whether given log publishing option is enabled or not.\n@\return Returns a reference to this object so that method calls can be chained together."
,"fluentSetterMethodName": "enabled"
Specifies whether given log publishing option is enabled or not.

Specifies whether given log publishing option is enabled or not.

Specifies whether given log publishing option is enabled or not.

Specifies whether given log publishing option is enabled or not.
"variableType": "Boolean",
"documentation": "<p>Specifies whether given log publishing option is enabled or not.</p>",
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"xmlnsSpaceUri": 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 [@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)].

@see #cloudWatchLogsLogGroupArn(String)",
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": 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.

@see #cloudWatchLogsLogGroupArn(String)",
  "getDocumentation": "Returns the value of the CloudWatchLogsLogGroupArn property for this object.

@see #cloudWatchLogsLogGroupArn(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": "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.\n\n@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": {
  "variableDeclarationType": "String",
  "variableName": "cloudWatchLogsLogGroupArn",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
],
"Enabled": {
  "beanStyleGetterMethodName": "getEnabled",
  "beanStyleSetterMethodName": "setEnabled",
  "c2jName": "Enabled",
  "c2jShape": "Boolean",
  "defaultConsumerFluentSetterDocumentation": "<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()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link enabled(Boolean)}. Return a consumer that will call methods on {@link Boolean.Builder} so that method calls can be chained together.

\@param enabled a consumer that will call methods on {@link Boolean.Builder} \n\nReturns a reference to this object so that method calls can be chained together.

\@see enabled(Boolean)

"deprecated" : false,
"documentation" : "<p> Specifies whether given log publishing option is enabled or not.</p>",
"endpointDiscoveryId" : 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>",
"getterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not.</p>",
"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" : "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",
"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"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "enabled",
    "variableType" : "Boolean",
    "documentation" : "Specifies whether given log publishing option is enabled or not.",
    "simpleType" : "Boolean",
    "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"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)}. 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,
    "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

"variable": {
  "variableDeclarationType": "String",
  "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. </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 whether given log publishing option is enabled or not. </p>",
  "endpointDiscoveryId": 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>
@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.",
  
  "gettersetterMethodname": "enabled",
  "getterDocumentation": "<p> Specifies whether given log publishing option is enabled or not. </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": "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 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"
},
"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"
},
"wrapper" : false
},
"LogPublishingOptionsStatus" : {
    "c2jName" : "LogPublishingOptionsStatus",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "The configured log publishing options for the domain and their current status.<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" : "getOptionsAsStrings",
        "beanStyleSetterMethodName" : "setOptionsWithStrings",
        "c2jName" : "Options",
        "c2jShape" : "LogPublishingOptions",
        "defaultConsumerFluentSetterDocumentation" : "The log publishing options configured for the Elasticsearch domain.<p/>This is a convenience that creates an instance of the Map&lt;String,LogPublishingOption&gt; avoiding the need to create one manually via Map&lt;String,LogPublishingOption&gt;#builder(). When the Map&lt;String,LogPublishingOption&gt;#build() is called immediately and its result is passed to Map&lt;String,LogPublishingOption&gt;#optionsAsStrings(Map&lt;String,LogPublishingOption&gt;)) the consumer a that will call methods on Map&lt;String,LogPublishingOption&gt;#optionsAsStrings. When these methods are called, the options can be chained together.
"deprecated" : false,
The log publishing options configured for the Elasticsearch domain.

@returns The log publishing options configured for the Elasticsearch domain.

@throws UnsupportedOperationException

The log publishing options configured for the Elasticsearch domain.

Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

The log publishing options configured for the Elasticsearch domain.

@returns Returns a reference to this object so that method calls can be chained together.

The log publishing options configured for the Elasticsearch domain.

@returns Returns a reference to this object so that method calls can be chained together.

The log publishing options configured for the Elasticsearch domain.

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The log publishing options configured for the Elasticsearch domain.

@returns Returns a reference to this object so that method calls can be chained together.

The log publishing options configured for the Elasticsearch domain.

@returns Returns a reference to this object so that method calls can be chained together.

The log publishing options configured for the Elasticsearch domain.
"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 #key(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"eventType" : "LogType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "key",
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString",
"fluentSetterDocumentation" : "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. @see #key(String)",
"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 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.

@parame 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 LogPublishingOption.Builder#build() is called immediately and its result is passed to LogPublishingOption.Builder#build(). When the LogPublishingOption.Builder#build() completes, LogPublishingOption.Builder#build() is called and its result is passed to LogPublishingOption.Builder#build().

@parame value a consumer that will call methods on LogPublishingOption.Builder#build(). 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.

@<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.

@return The new value for the Value property for this object.",
"setterMethodName": "setValue",
"setterModel": {
  "variableDeclarationType": "LogPublishingOption",
  "variableName": "value",
  "variableType": "LogPublishingOption"
The log publishing options configured for the Elasticsearch domain.

@param options The log publishing options configured for the Elasticsearch domain.

@getterStatus
@setterStatus

The log publishing options configured for the Elasticsearch domain.

@getterOptions
@setterOptions
"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. &lt;/p&gt;&lt;null&gt;

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 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 <code>OptionStatus</code> 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" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. &lt;/p&gt;&lt;null&gt;

@returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. &lt;/p&gt;&lt;null&gt;

@returns The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

@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
},

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<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. 

Example usage:

```java
OptionStatus status = OptionStatus.builder()
    .status(STATUS)
    .build();
```

The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

```
@link OptionStatus

The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

```

```java
OptionStatus status = OptionStatus.builder()
    .status(STATUS)
    .build();
```

This is a convenience that creates an instance of the <code>Map</code> avoiding the need to create one manually via <code>Map#builder()</code>. When the <code>Consumer</code> completes, <code>Map#build()</code> is called immediately and its result is passed to <code>optionsAsStrings(Map<String,LogPublishingOption>)</code>.
"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 \{String.Builder\} avoiding the need to create one manually via \{String.Builder#builder()\}. When the \{String.Builder#build()\} is called immediately and its result is passed to \{String#builder(String)\}.\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@see LogType\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
  "fluentSetterMethodName" : "key",
  "getterDocumentation" : "Returns the value of the Key property for this object.\n\nIf the service returns an enum value that is not available in the current SDK version, \{key\} will return \{LogType#UNKNOWN_TO_SDK_VERSION\}. The raw value returned by the service is available from \{keyAsString\}.\n\n@see LogType\n\n@return The value of the Key property for this object.\n\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
  }
}
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"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": "",
  "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 when the Consumer completes, LogPublishingOption.Builder#build() is called immediately and its result is passed to 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@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" : "",
"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>
", "simpleType" : "Map<String,LogPublishingOption>",
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"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. 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)}.<br>\n@see #status(OptionStatus)",
  "deprecated" : false,
  "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>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "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@see #status(OptionStatus)",
  "getterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </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},
  "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. </p>
@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
}]
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getOptionsAsStrings",
  "beanStyleSetterMethodName" : "setOptionsWithStrings",
  "c2jName" : "Options",
  "c2jShape" : "LogPublishingOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain. </p>
  @link
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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>)}. @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" : "<p>The log publishing options configured for the Elasticsearch domain. </p>",
"endpointDiscoveryId" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "options",
"fluentEnumSetterMethodName" : "options",
"fluentGetterMethodName" : "optionsAsStrings",
"fluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain. 
</p>
"fluentSetterMethodName" : "optionsWithStrings",
"getterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain.
</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" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"keyModel" : {
    "implementType" : "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)}. \n\n@see #key(String)"
    },
    "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.\n@see LogType\n@return Returns a reference to this object so that method calls can be chained together.\n@see #key(String)"
    "getDocumentation" : "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@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",
    },
    "documentation" : null
},
"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@see LogType\n@return Returns a reference to this object so that method calls can be chained together.\n@see #key(String)"
    "getDocumentation" : "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@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",
    },
    "documentation" : null
}
"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" : "",
  "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)}

@link LogPublishingOption.Builder

@returns 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,
"fluentGetMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@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.

@returns 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@ \nparam 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" : null,
  "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.\n\n@ \nparam options The log publishing options configured for the Elasticsearch domain.\n",
"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.\n",
  "simpleType" : "Map<String,LogPublishingOption>"},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"}
"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 [@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] directly.

When the [@link Consumer] completes, the result is passed to the [@link OptionStatus.Builder#build()] method. When the method completes, the result is passed to the [@link OptionStatus#status(OptionStatus)] method. The result is then passed to the [@link OptionStatus] method.

@see #status(OptionStatus)",
"deprecated": false,
"documentation": "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

@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.

@see #status(OptionStatus)",
"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.

@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",
"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. </p>
@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": "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></p>",
    "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,
"members" : [ {
    "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()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #enabled(Boolean)}. enabled a consumer that will call methods on the enabled(Boolean).@return Returns a reference to this object so that method calls can be chained together.
@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>
@param enabled Specify true to enable node-to-node encryption.
@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "enabled",
    "fluentSetterDocumentation" : "Specify true to enable node-to-node encryption.
@return Returns a reference to this object so that method calls can be chained together.",
    "getterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>
@return 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,
"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.
@see #enabled(Boolean),
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>"
},
xmNameSpaceUri" : null
},
"membersAsMap" : {
  "Enabled" : {
    "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() }.

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>Specify true to enable node-to-node encryption.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
Specify true to enable node-to-node encryption.

@returns Returns a reference to this object so that method calls can be chained together.

Specify true to enable node-to-node encryption.

Specify true to enable node-to-node encryption.

Specify true to enable node-to-node encryption.

 SPECIFY_TRUE_TO_ENABLE_NODE_TO_NODE_ENCRYPTION.

 SET_ENABLED.

 SET_ENABLED {
   "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",
"defaultConsumerFluentSetterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>
This is a convenience that creates an instance of the [getEnabled] avoiding the need to create one manually via [setEnabled].
When the [enabled] completes, [enabled] is called immediately and its result is passed to [enabled].
So that method calls can be chained together.

"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>
This is a convenience that creates an instance of the [enabled] avoiding the need to create one manually via [setEnabled].
When the [enabled] completes, [enabled] is called immediately and its result is passed to [enabled].
So that method calls can be chained together.

"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>
This is a convenience that creates an instance of the [enabled] avoiding the need to create one manually via [setEnabled].
When the [enabled] completes, [enabled] is called immediately and its result is passed to [enabled].
So that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p>Specify true to enable node-to-node encryption.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"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,
"jsonData": 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>"
},
"xmlNameSpaceUri": null
}

"requestSignerAware": false,
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" : "Status of the node-to-node encryption 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,
"marshaller" : null,
"members" : [
  {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "NodeToNodeEncryptionOptions",
    "defaultConsumerFluentSetterDocumentation" : "Specifies the node-to-node encryption options for the"
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, { @link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to { @link #options(NodeToNodeEncryptionOptions)}.  

@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>

"getterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>

"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,
Specifies the node-to-node encryption options for the specified Elasticsearch domain.

@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.

Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.

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.Builder.return().

Returns a reference to this object so that method calls can be chained together.

Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.
null, "fluentEnumSetterMethodName": null, "fluentGetterMethodName": "status", "fluentSetterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain. \n@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain. \n@return Returns a reference to this object so that method calls can be chained together.\n</p>", "fluentSetterMethodName": "status", "setterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain. \n@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.\n</p>
@param status 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": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain. \n@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.\n</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", "variant": "status", "variableValue": null }
"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>\nThis is a convenience that creates an instance of the { @link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via { @link NodeToNodeEncryptionOptions#builder()}.\nWhen the { @link Consumer} completes, { @link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to { @link #options(NodeToNodeEncryptionOptions)}.\n@param options 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 #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>\n@param options Specifies the node-to-node encryption options 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 node-to-node encryption options for the specified Elasticsearch domain.</p>\n@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.",
    "timestampFormat" : null
  }
}
"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>\n@\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"
},
"xmlnsNameSpaceUri" : 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.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#status(OptionStatus)].

@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>
<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.

@see #status(OptionStatus)",
"getterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>

@return 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,
"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>
\n@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
},

"nonStreamingMembers" : [ {
   "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 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,
"jsonpValue" : 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
},
"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, the null OptionStatus.Builder#build() is called immediately and its result is passed to the OptionStatus.Builder#build() that will call methods on the @link OptionStatus.Builder#build() reference to this object so that method calls can be chained together.
@param status a consumer that will call methods on the @link OptionStatus.Builder#build() that will call methods on the @link OptionStatus.Builder#build() 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 #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>
@return 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": "<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 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.&lt;/p&gt;",
    "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:
<li>Processing: The request change is still in-process.
<li>Active: The request change is processed and deployed to the Elasticsearch domain.
"endpointDiscovery": null,
"enums": [
  { "name": "REQUIRES_INDEXDOCUMENTS", "value": "RequiresIndexDocuments" },
  { "name": "PROCESSING", "value": "Processing" },
  { "name": "ACTIVE", "value": "Active" }
],
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCauseMember": 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)}.

@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>
@param creationDate 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 #creationDate(Instant)"
    },
    "fluentSetterMethodName" : "creationDate",
    "getterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>"
  }
}

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which tells the creation date for the entity.

```
"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},

"http" : {
  "additional MarshallingPath" : null,
  "additional UnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshall Location" : "PAYLOAD",
  "marshall LocationName" : "CreationDate",
  "queryString" : false,
  "statusCode" : false,
  "unmarshall LocationName" : "CreationDate",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "INSTANT",

"name" : "CreationDate",

"simple" : true,

"setter Documentation" : "<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",
"defaultValueConsumerFluentSetterDocumentation" : "<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#builder()}. When the {@link Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to {@link #updateDate(Instant)}. @param updateDate 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 #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>
"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
},
{
  "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)}. @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.\n@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",
"fluentSetterMethodName" : "updateVersion",
"getterDocumentation" : "<p>Specifies the latest version for the entity.</p>\n@return Returns a reference to this object so that method calls can be chained together.",
"getterMethodName" : "updateVersion",
"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",
"setterDocumentation" : "<p>Specifies the latest version for the entity.</p>\n@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.

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 #stateAsString(String)</code>. Returns a reference to this object so that method calls can be chained together.

@see #stateAsString(String)

@deprecated"
, "documentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.

If the service returns an enum value that is not available in the current SDK version, <code>@link #state</code> will return <code>@link OptionState#UNKNOWN_TO_SDK_VERSION</code>. The raw value returned by the service is available from <code>@link #stateAsString(String)</code>. Returns a reference to this object so that method calls can be chained together.

@see OptionState",
"getterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.

If the service returns an enum value that is not available in the current SDK version, <code>@link #state</code> will return <code>@link OptionState#UNKNOWN_TO_SDK_VERSION</code>. The raw value returned by the service is available from <code>@link #stateAsString(String)</code>. Returns a reference to this object so that method calls can be chained together.

@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": null,
"statusCode": false,
"unmarshallLocationName": "State",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"ListModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "State",
"simple": true,
"setterDocumentation": "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p><@param state Provides the <code>OptionState</code> for the Elasticsearch domain.\n@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.<br>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>",
"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.",
"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",
"setModel" : {
  "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() ].
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 ]
@return 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>
@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.
@return Returns a reference to this object so that method calls can be chained together.",
"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" : "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}.<br>When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #pendingDeletion(Boolean)}.<br>@param pendingDeletion a consumer that will call methods on { @link Boolean.Builder}<br>@return Returns a reference to this object so that method calls can be chained together.<br>@see #pendingDeletion(Boolean)",
  "deprecated" : false,
  "documentation" : "Indicates whether the Elasticsearch domain is being deleted.
<p>When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #pendingDeletion(Boolean)}.<br>@param pendingDeletion a consumer that will call methods on { @link Boolean.Builder}<br>@return Returns a reference to this object so that method calls can be chained together.<br>@see #pendingDeletion(Boolean)",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "pendingDeletion",
  "fluentSetterDocumentation" : "Indicates whether the Elasticsearch domain is being deleted.
<p>When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #pendingDeletion(Boolean)}.<br>@param pendingDeletion a consumer that will call methods on { @link Boolean.Builder}<br>@return Returns a reference to this object so that method calls can be chained together.<br>@see #pendingDeletion(Boolean)",
  "getterDocumentation" : "Indicates whether the Elasticsearch domain is being deleted.
<p>When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #pendingDeletion(Boolean)}.<br>@param pendingDeletion a consumer that will call methods on { @link Boolean.Builder}<br>@return Returns a reference to this object so that method calls can be chained together.<br>@see #pendingDeletion(Boolean)",
  "getterModel" : {"variableDeclarationType" : "java.time.Instant",
  "variableName" : "creationDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"}
"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",
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Boolean",
"variableName" : "pendingDeletion",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"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"
}
"variableSetterType" : "Boolean",
},
"xmlNameSpaceUri" : null
},
"State" : {
"beanStyleGetterMethodName" : "getStateAsString",
"beanStyleSetterMethodName" : "setState",
"c2jName" : "State",
"c2jShape" : "OptionState",
"defaultConsumerFluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.<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()}.<br/>When the [@link Consumer] completes, (@link String.Builder#build()) is called immediately and its result is passed to (@link #stateAsString(String)).
<br/>When the method call is completed, it will return a reference to this object so that method calls can be chained together.<br/>@param state 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 #state(String)",
"deprecated" : false,
"documentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.<br/>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.<br/>endpointDiscoveryId" : false,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "state",
"fluentEnumSetterMethodName" : "state",
"fluentGetterMethodName" : "stateAsString",
"fluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.<br/>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].
<br/>@param state Provides the <code>OptionState</code> for the Elasticsearch domain.<br/>@return Returns a reference to this object so that method calls can be chained together.<br/>@see OptionState",
"fluentSetterMethodName" : "state",
"getterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.<br/>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" : "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" : "Provides the <code>OptionState</code> for the Elasticsearch domain.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpdateDate" : {
  "beanStyleGetterMethodName" : "getUpdateDate",
  "beanStyleSetterMethodName" : "setUpdateDate",
  "c2jName" : "UpdateDate",
  "c2jShape" : "UpdateTimestamp",
  "defaultConsumerFluentSetterDocumentation" : "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 Consumer} completes, {@link
Instant.Builder#build()} is called immediately and its result is passed to {@link #updateDate(Instant)}.

@param updateDate 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 #updateDate(Instant)

"deprecated" : false,
"documentation" : "<p>Timestamp which tells the last updated time for the entity.\n</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.\n</p>
@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",
"fluentSetterMethodName" : "updateDate",
"getterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.\n</p>
@return Timestamp which tells the last updated time 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" : "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#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #updateVersion(Integer)}.

When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #updateVersion(Integer)}.

When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #updateVersion(Integer)}.

When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #updateVersion(Integer)}.

@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>

Specifies the latest version for the entity.

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.

Specifications.
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>\n@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
}
],
"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getCreationDate",
    "beanStyleSetterMethodName" : "setCreationDate",
    "c2jName" : "CreationDate",
    "c2jShape" : "UpdateTimestamp",
    "defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the creation date 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 Consumer#complete()} is called immediately and its result is passed to {<link Consumer#createDate(Instant)} a consumer that will call methods on {<link Instant.Builder#build()}\n@param creationDate a consumer that will call methods on {<link Instant.Builder#build()}\n@return Returns a reference to this object so that method calls can be chained together.\n@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>
@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)}. "setterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>

@see #updateDate(Instant)".

"@param updateDate a consumer that will call methods on { @link Instant.Builder} returns a reference to this object so that method calls can be chained together."
"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" : null,
  "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()}. 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}@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>
@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>
@returns 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>",
"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. This is a convenience that creates an instance of the <code>OptionState</code> avoiding the need to create one manually via <code>String.Builder</code>. When the consumer completes, the <code>String.Builder</code> is called immediately and its result is passed to <code>stateAsString(String)</code>. param state a consumer that will call methods on <code>String.Builder</code>. return Returns a reference to this object so that method calls can be chained together.<code>OptionState</code>
"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",
"fluentSetterMethodName" : "state",
"fluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
@param state Provides the <code>OptionState</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.<code>OptionState</code>
"fluentSetterMethodDocumentation" : "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, <code>state</code> will return <code>UNKNOWN_TO_SDK_VERSION</code>. The raw value returned by the service is available from <code>stateAsString</code>. return Provides the <code>OptionState</code> for the 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" : "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.</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)}. When the method call is made, a consumer that will call methods on { @link Boolean.Builder} will be called. The returned reference is a reference to the 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>
@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.
",
"fluentSetterMethodName" : "pendingDeletion",
"getterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@return Indicates whether the Elasticsearch domain is being deleted.
",
"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,
"mandatory" : [ "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
    }
}
Container for parameters to PurchaseReservedElasticsearchInstanceOffering.

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. When the Consumer completes, a consumer that will call methods on a reference to this object so that method calls can be chained together.

The ID of the reserved Elasticsearch instance offering to purchase.

The ID of the reserved Elasticsearch instance offering to purchase.

When the Consumer completes, a consumer that will call methods on a reference to this object so that method calls can be chained together.

The ID of the reserved Elasticsearch instance offering to purchase.
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
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "ReservedElasticsearchInstanceOfferingId",

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"setterDocumentation" : "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"
}

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The ID of the reserved Elasticsearch instance offering to purchase.

A customer-specified identifier to track this reservation. When the Consumer completes, it is called immediately and its result is passed to #reservationName(String). A customer-specified identifier to track this reservation. Returns a reference to this object so that method calls can be chained together.

A customer-specified identifier to track this reservation.

A customer-specified identifier to track this reservation. Returns a reference to this object so that method calls can be chained together.

A customer-specified identifier to track this reservation. A customer-specified identifier to track this reservation. Returns a reference to this object so that method calls can be chained together.

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 #reservationName(String). A customer-specified identifier to track this reservation. Returns a reference to this object so that method calls can be chained together.

A customer-specified identifier to track this reservation.
"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.

"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 InstanceCount(Integer)].

@returns Returns a reference to this object so that method calls can be chained together.

@see #instanceCount(Integer)"
"deprecated" : false,
"documentation" : "\p>\nThe number of Elasticsearch instances to reserve.\n\</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceCount",
"fluentSetterDocumentation" : "\p>\nThe number of Elasticsearch instances to reserve.\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",
"fluentSetterMethodName" : "instanceCount",
"getterDocumentation" : "\p>\nThe number of Elasticsearch instances to reserve.\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",
"sensitive" : false,
"setterDocumentation" : "\p>\nThe number of Elasticsearch instances to reserve.\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",
"setterMethodName" : "setInstanceCount",
"sensitive" : false,
"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" : "The number of Elasticsearch instances to reserve.",
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null

"membersAsMap" : {
    "InstanceCount" : {
        "beanStyleGetterMethodName" : "getInstanceCount",
        "beanStyleSetterMethodName" : "setInstanceCount",
        "c2jName" : "InstanceCount",
        "c2jShape" : "InstanceCount",
        "defaultConsumerFluentSetterDocumentation" : "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@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" : "The number of Elasticsearch instances to reserve.\nendpointDiscoveryId" : false,
        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : null,
        "fluentEnumSetterMethodName" : null,
        "fluentGetterMethodName" : "instanceCount",
        "fluentSetterDocumentation" : "The number of Elasticsearch instances to reserve.\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@see #instanceCount(Integer)",
        "getterDocumentation" : "The number of Elasticsearch instances to reserve.\n@see #instanceCount(Integer)",
        "getterMethod" : null,
        "timestampFormat" : null,
        "variableDeclarationType" : "Integer",
        "variableName" : "instanceCount",
        "variableType" : "Integer",
        "variableSetterType" : "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,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "InstanceCount",
"sensitive" : false,
"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" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "instanceCount",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
}
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"ReservationName" : {
"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 {@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 #reservationName(String)}.

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}
@see #reservationName(String)",
"deprecated" : false,
"documentation" : "<p>A customer-specified identifier to track this reservation.</p>",
"endpointDiscoveryId" : false,
"enumType" : 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.
@see #reservationName(String)",
"getterDocumentation" : "<p>A customer-specified identifier to track this reservation.</p>
@return A customer-specified identifier to track this reservation.
@see #reservationName(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" : "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.

@method setReservationName


\n\n\n
\n\n\n
\n\n\n

"ReservedElasticsearchInstanceOfferingId" : {
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"c2jName" : "ReservedElasticsearchInstanceOfferingId",
"c2jShape" : "GUID",
"defaultConsumerFluentSetterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</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 String.Builder#build()] is called immediately and its result is passed to [@link #reservedElasticsearchInstanceOfferingId(String)].

@method reservedElasticsearchInstanceOfferingId

@method String.Builder

@method 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>
@see #reservedElasticsearchInstanceOfferingId(String)",
"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"getterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
@see #reservedElasticsearchInstanceOfferingId(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" : "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>
@see #reservedElasticsearchInstanceOfferingId(String)",
"setterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"type" : null,
"version" : 2.0,
"wires" : [
  {
    "id" : "47c63f3b-85f6-4d2e-a96f-9e29e68f005d",
    "name" : "ReservedElasticsearchInstanceOfferingId",
    "type" : "string",
    "attributes" : {
      "reservedElasticsearchInstanceOfferingId" : {
        "name" : "reservedElasticsearchInstanceOfferingId",
        "type" : "string",
        "isCollection" : false,
        "isMap" : false,
        "isList" : false,
        "isArray" : false,
        "isEvent" : false,
        "isEnum" : false,
        "isMapEntry" : false
      }
    }
  }
],
"wireModel" : null,
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()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #reservedElasticsearchInstanceOfferingId(String)}.\n\n@see #reservedElasticsearchInstanceOfferingId(String)"

  "deprecated" : false,
  "documentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>",
  "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>

@see #reservedElasticsearchInstanceOfferingId(String)"

  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
"getterDocumentation": "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>

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
},

"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": null,
  "simpleType": "String",
  "variableSetterType": "String"
}}
"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.
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}@return 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,
"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.
},
"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",
"敏感" : false,
"setterDocumentation" : "<p>A customer-specified identifier to track this reservation.</p>
@param
reservationName 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
},
{
  "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 #instanceCount(Integer)}.@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.@see
#instanceCount(Integer)

    "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>
    @param instanceCount The number of Elasticsearch instances to reserve.
    @return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "instanceCount",
    "getterDocumentation" : "<p>The number of Elasticsearch instances to reserve.</p>
    @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",
    "sensitive" : false,
    "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" : "The number of Elasticsearch instances to reserve.\n\n<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" : "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",
  "defaultConsumerFluentSetterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</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 reservedElasticsearchInstanceId(String)}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@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\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.\n\n@see #reservedElasticsearchInstanceId(String)",
  "fluentSetterMethodName" : "reservedElasticsearchInstanceId",
  "getterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>\n\n@return Details of the reserved Elasticsearch instance which was purchased.\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.\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>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)}.<br/>

@param reservationName 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 reservationName(String)",
"deprecated" : false,
"documentation" : "The customer-specified identifier used to track this reservation.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "The customer-specified identifier used to track this reservation.

@param reservationName The customer-specified identifier used to track this reservation.
@return Returns a reference to this object so that method calls can be chained together.
@see reservationName(String)",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "The customer-specified identifier used to track this reservation.

@return The customer-specified identifier used to track this reservation.

@see "string"

getterModel" : {},
"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 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
}
],
"membersAsMap": {
  "ReservationName": {
    "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)}.
@see #reservationName(String)",
    "deprecated": false,
    "documentation": "<p>The customer-specified identifier used to track this reservation.</p>",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventType": false,
    "eventHeader": false,
    "eventPayload": false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "The customer-specified identifier used to track this reservation.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "The customer-specified identifier used to track this reservation.\n@return The customer-specified identifier used 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" : "The customer-specified identifier used to track this reservation.\n@return 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": "The customer-specified identifier used to track this reservation."
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"ReservedElasticsearchInstanceId": {
"beanStyleGetterMethodName": "getReservedElasticsearchInstanceId",
"beanStyleSetterMethodName": "setReservedElasticsearchInstanceId",
"c2jName": "ReservedElasticsearchInstanceId",
"c2jShape": "GUID",
"defaultConsumerFluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased.

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)}. 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": "Details of the reserved Elasticsearch instance which was purchased."
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "reservedElasticsearchInstanceId",
"fluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased.

@return Returns a reference to this object so that method calls can be chained together.
"getterDocumentation": "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" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p><p>@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.</p>",
"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
}
"nonStreamingMembers" : [ 

"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceIds",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceIds",
"c2jName" : "ReservedElasticsearchInstanceIds",
"c2jShape" : "GUID",

"defaultConsumerFluentSetterDocumentation" : "<p>Details of the reserved Elastic search 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)}.

@see #reservedElasticsearchInstanceId(String)",

"deprecated" : false,
"documentation" : "<p>Details of the reserved Elastic search instance which was purchased.</p>",
"endpointDiscoveryId" : false,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",

"fluentSetterDocumentation" : "<p>Details of the reserved Elastic search instance which was purchased.</p>

@see #reservedElasticsearchInstanceId(String)",

"getterDocumentation" : "<p>Details of the reserved Elastic search instance which was purchased.</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" : "ReservedElasticsearchInstanceIds",

"queryString" : false,

"statusCode" : false,

"unmarshallLocationName" : "ReservedElasticsearchInstanceIds",

"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>",
  "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()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link String.Builder#build()} 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 #reservationName(String)",
"deprecated": false,
"documentation": "<p>The customer-specified identifier used to track this reservation.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"reservationName": The customer-specified identifier used to track this reservation.

@returns

The customer-specified identifier used to track this reservation.

"setReservationName":

"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 used to track this reservation.",
  "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"
},
"wrapper" : false,
"RecurringCharge" : {
  "c2jName" : "RecurringCharge",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Contains the specific price and frequency of a recurring charges for a reserved Elasticsearch instance, or for a reserved Elasticsearch instance offering.",
  "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.</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#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 the Double.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n```
        "deprecated": false,
        "documentation": "The monetary amount of the recurring charge."",
        "endpointDiscoveryId": false,
        "enumType": null,
        "eventHeader": false,
        "eventPayload": false,
        "fluentEnumGetterMethodName": null,
        "fluentEnumSetterMethodName": null,
        "fluentGetterMethodName": "recurringChargeAmount",
        "fluentSetterDocumentation": "<p>The monetary amount of the recurring charge.</p>
\n```
@param recurringChargeAmount The monetary amount of the recurring charge.\n@return Returns a reference to this object so that method calls can be chained together.\n```
        "fluentSetterMethodName": "recurringChargeAmount",
        "getterDocumentation": "The monetary amount of the recurring charge.\n```
@return The monetary amount of the recurring charge.\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" : "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" : "<p>The monetary amount of the recurring charge.</p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"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
When the `Consumer` completes, `String.Builder.build()` is called immediately and its result is passed to `recurringChargeFrequency(String)`.

```java
@link String#builder().

When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `recurringChargeFrequency(String)`.

```java
@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.

```java
@see #recurringChargeFrequency(String)
```
"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" : "&lt;p&gt;The frequency of the recurring charge.&lt;/p&gt;&lt;\n\n@param recurringChargeFrequency
The frequency of the recurring charge.&lt;/p&gt;",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "RecurringChargeAmount" : {
    "beanStyleGetterMethodName" : "getRecurringChargeAmount",
    "beanStyleSetterMethodName" : "setRecurringChargeAmount",
    "c2jName" : "RecurringChargeAmount",
    "c2jShape" : "Double",
    "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The monetary amount of the recurring charge.&lt;/p&gt;&lt;\n\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 #recurringChargeAmount(Double)}\n@param recurringChargeAmount a consumer that will call methods on { @link Double.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #recurringChargeAmount(Double)",
    "deprecated" : false,
    "documentation" : "&lt;p&gt;The monetary amount of the recurring charge.&lt;/p&gt;",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "recurringChargeAmount",
    "fluentSetterDocumentation" : "&lt;p&gt;The monetary amount of the recurring charge.&lt;/p&gt;&lt;\n\n@returns Returns a reference to this object so that method calls can be chained together." ,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "recurringChargeFrequency",
    "variableType" : "String",
    "documentation" : "&lt;p&gt;The frequency of the recurring charge.&lt;/p&gt;",
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
} },
"fluentSetterMethodName": "recurringChargeAmount",
"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" : "<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>
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().build()].

@param recurringChargeFrequency 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 #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.
@return 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" : null,
"marshallingLocation" : null,
"marshallingLocationName" : null,
"unmarshallingLocation" : null,
"unmarshallingLocationName" : null,
"uri" : null,
"hashCode" : function(),
"httpMethod" : function",
"requestResponseMetadataProviderExtractor" : null,
"requestResponseMetadataProviderExtractorProvider" : null,
"requestSpecificationExtractor" : null,
"requestSpecificationExtractorProvider" : null,
"responseBodyExtractor" : null,
"responseBodyExtractorProvider" : null,
"responseUnmarshallerFactoryExtractor" : null,
"responseUnmarshallerFactoryExtractorProvider" : null,
"responseUnmarshallerProviderFactory" : null,
"responseUnmarshallerProviderFactoryProvider" : null,
"serviceOperationResponseMetadataExtractor" : null,
"serviceOperationResponseMetadataExtractorProvider" : null,
"serviceResponseMetadataExtractor" : null,
"serviceResponseMetadataExtractorProvider" : null,
"validateResponseMetadata" : false,
"validateResponseMetadataProvider" : null,
"validateResponseMetadataProviderProvider" : null,
"variableName" : null,
"variableType" : null,
"documentation" : null,
"simpleType" : null,
"variableSetterType" : null
},
"xmlNameSpaceUri" : null
}
"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" : "<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 [recurringChargeAmount(Double)].\n\param recurringChargeAmount a consumer that will call methods on [Double.Builder]\n\return Returns a reference to this object so that method calls can be chained together.\n\see recurringChargeAmount(Double)\n"deprecated" : false, 
"documentation" : "<p>The monetary amount of the recurring charge.</p>\n,"endpointDiscoveryId" : false, 
"enumType" : null, 
"eventHeader" : false, 
"eventPayload" : false, 
"fluentEnumGetterMethodName" : null, 
"fluentEnumSetterMethodName" : null, 
"fluentGetterMethodName" : "recurringChargeAmount", 
"fluentSetterDocumentation" : "<p>The monetary amount of the recurring charge.</p>\n\return The monetary amount of the recurring charge.\n\param recurringChargeAmount The monetary amount of the recurring charge.\n\return Returns a reference to this object so that method calls can be chained together."\n,"fluentSetterMethodName" : "recurringChargeAmount", 
"getterDocumentation" : "<p>The monetary amount of the recurring charge.</p>\n\return The monetary amount of the recurring charge.\n\param recurringChargeAmount The monetary amount of the recurring charge.\n\return Returns a reference to this object so that method calls can be chained together."\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" : "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" : ">
\n@\n\nsetterMethodName" : "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" : "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 #recurringChargeFrequency(String)]\n\n@\n\ngetterDocumentation" : "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.\n\n@\n\ngetterDocumentation" : "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>\n@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" : "<p>The frequency of the recurring charge.</p>"},
"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"
},
"wrapper" : false
},
"RemoveTagsRequest" : {
"c2jName" : "RemoveTagsRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"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>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller": {
  "action": "RemoveTags",
  "locationName": null,
  "requestUri": "/2015-01-01/tags-removal",
  "target": null,
  "verb": "POST",
  "xmlNameSpaceUri": null
},
"members": [
  {
    "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>\"\n    "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>\"\n    "fluentSetterMethodName": "arn",
    "getterDocumentation": "\"<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>\"
    "getterModel": {
      "returnType": "String",
      "documentation": null
    },
    "http": {
      "additionalMarshallingPath": null,
      "additionalUnmarshallingPath": null,
      "flattened": false,
      "greedy": false,
      "header": false,
      "isPayload": false,
      "httpMethod": "POST",
      "isEndpointDiscoveryId": false,
      "isRequestUri": false,
      "isTarget": false,
      "isVerb": 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\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>\n\n@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.",

  "simpleType": "String",
  "variableSetterType": "String"
},

"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>

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 tagKeys(List<String>) }. @param tagKeys 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 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" : "tagKeys",
"getterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.

@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.\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 #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\nThe new value for the Member property for this object.\n\n@see \#member(String)",
  "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"
}
"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,
  "returnType": "String",
  "documentation": 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.\n\n@param member The new value for the Member property for this object.\n",
"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" : "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.",
"setterMethod": "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.</p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethod" : 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\>\@param arn Specifies the <code>ARN</code> for the
Elasticsearch domain from which you want to delete the specified tags.\@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\>\@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\>\@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": "Specifies the ARN for the Elasticsearch domain from which you want to delete the specified tags."
"simple": true,
"typeName": "arn",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"TagKeys": {
"beanStyleGetterMethodName": "getTagKeys",
"beanStyleSetterMethodName": "setTagKeys",
"c2jName": "TagKeys",
"c2jShape": "StringList",
"defaultConsumerFluentSetterDocumentation": "Specifies the TagKey list which you want to remove from the Elasticsearch domain.
@see #tagKeys(List<String>)",
"deprecated": false,
"documentation": "Specifies the TagKey list which you want to remove from the Elasticsearch domain.
@see #tagKeys(List<String>)",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "tagKeys",
"fluentSetterDocumentation": "Specifies the TagKey list which you want to remove from the Elasticsearch domain.
@see #tagKeys(List<String>)",
"fluentSetterMethodName": "tagKeys",
"getterDocumentation": "Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
@see #tagKeys(List<String>)",
"variableDeclarationType": "String",
"variableName": "arn",
"variableSetterType": "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 [{@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)

@deprecated"
  "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)"
  "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\nReturns 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\nThe 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",
"simple" : true,
"timestampFormat" : null,

"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.</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" : "<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
},
"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.</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.

"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>
@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.
@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>
@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>
@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",
  "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, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link tagKeys(List<String>)}. The parameter tagKeys 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 #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>
<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.
",
"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,
"implModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"locationName" : "TagKeys",
"marshallLocationName" : null,
"nonStopElement" : false,
"readOnly" : false,
"streaming" : false,
"type" : null
},
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"locationName" : "TagKeys",
"marshallLocationName" : null,
"nonStopElement" : false,
"readOnly" : false,
"streaming" : false,
"type" : null
},
"providerId" : "aws-elasticsearch-domain",
"providerType" : "aws-elasticsearch-domain",
"resourceId" : "aws-elasticsearch-domain",
"resourceType" : "aws-elasticsearch-domain",
"serviceId" : "aws-elasticsearch-domain",
"serviceName" : "aws-elasticsearch-domain",
"serviceModel" : null,
"validator" : null}
"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)}.

@see #member(String)

@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.

@see #member(String)

@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.

@see #member(String)

@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": "TagKeys",
"sensitive": false,
"setterDocumentation": "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."

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.</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,
    "skipGeneratingUnmarshaller" : false,
    "skipGeneratingModelClass" : false,
    "staxTargetDepthOffset" : 0
  }
},

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"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getReservationName",
  "beanStyleSetterMethodName" : "setReservationName",
  "c2jName" : "ReservationName",
  "c2jShape" : "ReservationToken",
  "defaultConsumerFluentSetterDocumentation" : "<p>The customer-specified identifier to track this 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 #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" : "<p>The customer-specified identifier to track this reservation.</p>
  @param reservationName The customer-specified identifier to track this reservation.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #reservationName(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" : "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" : "<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>

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]
@return Returns a reference to this object so that method calls can be chained together.

@see #reservedElasticsearchInstanceId(String)
"marshallingType": "STRING",
"name": "ReservedElasticsearchInstanceId",
"sensitive": false,
"setterDocumentation": "<p>The unique identifier for the reservation.</p>
@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>
  @param reservedElasticsearchInstanceId The offering identifier.
  @return Returns a reference to this object so that method calls can be chained together.
"c2jName": "ReservedElasticsearchInstanceIdOfferingId",
"c2jShape": "String",
"defaultConsumerFluentSetterDocumentation": "<p>The 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#build() \}. When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #reservedElasticsearchInstanceIdOfferingId(String) \}.\n  @return Returns a reference to this object so that method calls can be chained together.\n\n@see #reservedElasticsearchInstanceIdOfferingId(String)\",
"deprecated": false,
"documentation": "<p>The offering identifier.</p>"},
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "reservedElasticsearchInstanceIdOfferingId",
"fluentSetterDocumentation": "<p>The offering identifier.\n  @param reservedElasticsearchInstanceIdOfferingId The offering identifier.\n  @return Returns a reference to this object so that
method calls can be chained together.

"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"getterDocumentation" : "&lt;p&gt;The offering identifier.&lt;/p&gt;&lt;n&gt;\n@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" : false,
  "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" : "&lt;p&gt;The offering identifier.&lt;/p&gt;&lt;n&gt;\n@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>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 [ElasticsearchInstanceTypeAsString\(\)].

When the [Consumer\(\)] completes, [String.Builder\(\).build\(\)] is called immediately and its result is passed to [ElasticsearchInstanceTypeAsString\(\)].

@fluent

\@param elasticsearchInstanceType 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 ElasticsearchInstanceType\(\)
",
"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>
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",

"getterMethod": "elasticsearchInstanceType",
"getterDocumentation": "<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, [ElasticsearchInstanceType#UNKNOWN_TO_SDK_VERSION]\(\)

The raw value returned by the service is available from [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,
The Elasticsearch instance type offered by the reserved instance offering.

@see ESPartitionInstanceType
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). @param startTime 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 #startTime(Instant)

@return Returns a reference to this object so that method calls can be chained together.

@methodName: "startTime"

@parameterName: "startTime"

@docstring: "The time the reservation started."
"name": "StartTime",
"sensitive": 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"
},
"xmlNameSpaceUri": null
],
"beanStyleGetterMethodName": "getDuration",
"beanStyleSetterMethodName": "setDuration",
"c2jName": "Duration",
"c2jShape": "Integer",
"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\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",
"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.",
"fluentSetterMethodName": "duration"
"getterDocumentation" : "<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.",
"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>\n@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" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"}
"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)].

@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.

@see #fixedPrice(Double)",
"fluentSetterMethodName": "fixedPrice",
"getterDocumentation": "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" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>\n@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"
},
"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.</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()}. When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link #usagePrice(Double)}. The rate you are charged for each hour for the domain that is using this reserved instance.

```
@deprecation
@see #usagePrice(Double)
```

@return Returns a reference to this object so that method calls can be chained together.

```java

```

"marshallingType" : "DOUBLE",
"name" : "UsagePrice",
"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
},
"beanStyleGetterMethodName" : "getCurrencyCode",
"beanStyleSetterMethodName" : "setCurrencyCode",
"c2jName" : "CurrencyCode",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<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)}. Returns a reference to this object so that method calls can be chained together. See {@link #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>"
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.

"fluentSetterMethodName" : "currencyCode",
"getterDocumentation" : "\n
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" : "\n
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, the result is passed to {@link ElasticsearchInstanceCount(Integer)}. When the consumer completes, the result is passed to the method.

  "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>
  @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.
  @see #elasticsearchInstanceCount(Integer)",
  "fluentSetterMethodName" : "elasticsearchInstanceCount",
  "getterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>
  @return Returns a reference to this object so that method calls can be chained together.
  @see #elasticsearchInstanceCount(Integer)",
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
String.Builder#build()} is called immediately and its result is passed to {@link #state(String)}.\n@see #state(String)\n
@deprecated\n
"documentation" : "<p>The state of the reserved Elasticsearch instance.</p>",
@endpointDiscoveryId : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethod" : "state",
"fluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
@see #state(String)\n
"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.
@param state The state of the reserved Elasticsearch instance.
</p>
@setterMethod "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>
  
  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)}. 
  
  @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
  @deprecated": false,
  "documentation": "<p>The payment option as defined in the reserved
  Elasticsearch instance offering.</p>
  
  @see ReservedElasticsearchInstancePaymentOption
  @return Returns a reference to this object so that
  method calls can be chained together.
  @see ReservedElasticsearchInstancePaymentOption",
  "endpointDiscoveryId": false,
  "enumType": "ReservedElasticsearchInstancePaymentOption",
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": "paymentOption",
  "fluentEnumSetterMethodName": "paymentOption",
  "fluentGetterMethodName": "paymentOptionAsString",
  "fluentSetterDocumentation": "<p>The payment option as defined in the reserved
  Elasticsearch instance offering.</p>
  
  @return Returns a reference to this object so that method calls can be chained together.
  @see ReservedElasticsearchInstancePaymentOption
  @param paymentOption The payment option as defined in 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",  
  "xmlNameSpaceUri": null
}
"getterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering. 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].",

"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" : "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"
}
"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,
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
  "beanStyleGetterMethodName" : "getMember",
  "beanStyleSetterMethodName" : "setMember",
  "c2jName" : "member",
  "c2jShape" : "RecurringCharge",
  "defaultValueConsumerFluentSetterDocumentation" : "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. 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."
}
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"}
The charge to your account regardless of whether you are creating any domains using the instance offering.

```java
@Param recurringCharges
```

```java
setRecurringCharges
```

```java
java.util.List<RecurringCharge>
```

```java
List<RecurringCharge>
```

```java
java.util.Collection<RecurringCharge>
```

```java
List<RecurringCharge>
```

```java
java.util.ArrayList<RecurringCharge>
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```java
java.util.List<RecurringCharge>
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"beanStyleGetterMethodName" : "getCurrencyCode",
"beanStyleSetterMethodName" : "setCurrencyCode",
"c2jName" : "CurrencyCode",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<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)}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #currencyCode(String)}.

@return Returns a reference to this object so that method calls can be chained together.

Parameters:

@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)

"fluentSetterMethodName" : "currencyCode",
"getterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>

Get the currency code for the reserved Elasticsearch instance offering.

@returns Returns a reference to this object so that method calls can be chained together.

@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",
"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": "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]
@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" : "The duration, in seconds, for which the Elasticsearch instance is reserved.
\n@param duration The duration, in seconds, for which the Elasticsearch instance is reserved.
\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "duration",
"getterDocumentation" : "The duration, in seconds, for which the Elasticsearch instance is reserved.
\n@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" : "The duration, in seconds, for which the Elasticsearch instance is reserved.
\n@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#builder()}. When the [@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#build()](@return Returns a reference to this object so that method calls can be chained together).(@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>
@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" : "<p>The number of Elasticsearch instances that have been reserved.</p>
@return 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",
"sensitive" : false,
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>
@param elasticsearchInstanceCount 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
},
"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)}.<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
@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.<br>
@see ESPartitionInstanceType<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
@see ESPartitionInstanceType",
"fluentSetterMethodName" : "elasticsearchInstanceType",
"getterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
<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</p>
@return The Elasticsearch instance type offered by the reserved instance offering.<br>
@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
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" : "The Elasticsearch instance type offered by the reserved instance offering.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"FixedPrice" : {
  "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 Double.Builder avoiding the need to create one manually via Double.builder(). When the Double.Consumer completes, Double.builder().build() is called immediately and its result is passed to Double.FixedPrice(Double) a consumer that will call methods on Double.Builder.

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
The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. 

```java
@Param fixedPrice
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
return
```

Returns a reference to this object so that method calls can be chained together.

```java
@FluentSetterDocumentation
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@FluentSetterMethod
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@getter
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@getterModel
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@http
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@idempotencyToken
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@isBinary
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@jsonValue
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@list
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@map
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@marshallType
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@name
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@sensitive
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```java
@setterDocumentation
```

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.
specific reserved Elasticsearch instance offering.

The upfront fixed charge you will be paid to purchase the specific reserved Elasticsearch instance offering. The payment option as defined in the reserved Elasticsearch instance offering.

This is a convenience that creates an instance of the \(\text{@link String.Builder}\) avoiding the need to create one manually via \{\@link String.Builder\}.\(\text{@link String.Builder}\)\@return Returns a reference to this object so that method calls can be chained together.\(\text{@link #paymentOption(String)}\)

\text{deprecated} : false,
\text{documentation} : "The payment option as defined in the reserved Elasticsearch instance offering."
\text{endpointDiscoveryId} : false,
\text{enumType} : "ReservedElasticsearchInstancePaymentOption",
\text{eventHeader} : false,
\text{eventPayload} : false,
\text{fluentEnumGetterMethodName} : "paymentOption",
\text{fluentEnumSetterMethodName} : "paymentOption",
\text{fluentGetterMethodName} : "paymentOptionAsString",
\text{fluentSetterDocumentation} : "The payment option as defined in the reserved Elasticsearch instance offering."
"fluentSetterMethodName" : "paymentOption",
"getterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering. 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]."] The payment option as defined in the reserved Elasticsearch instance offering. See ReservedElasticsearchInstancePaymentOption",
"getterModel" : { [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" : "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",

"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"
"RecurringCharges" : {
  "beanStyleGetterMethodName" : "getRecurringCharges",
  "beanStyleSetterMethodName" : "setRecurringCharges",
  "c2jName" : "RecurringCharges",
  "c2jShape" : "RecurringChargeList",
  "defaultConsumerFluentSetterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
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, the 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,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "recurringCharges",
  "fluentSetterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.",
  "getterDocumentation" : "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",
    "defaultValueFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [{@link RecurringCharge.Builder}) avoiding the need to create one manually via [{@link RecurringCharge.Builder#build()}].\nWhen the [{@link Consumer}) completes, [{@link RecurringCharge.Builder#build()}] is called immediately and its result is passed to [{@link #member(RecurringCharge)})].\n@param member a consumer that will call methods on [{@link RecurringCharge.Builder}],\n@return Returns a reference to this object so that method calls can be chained together.\n@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.\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.

@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.

@var.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"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "RecurringCharge",}
"variableName": "member",
"variableType": "RecurringCharge",
"documentation": "",
"simpleType": "RecurringCharge",
"variableSetterType": "RecurringCharge"
},
"xmlnsSpaceUri": 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\>\n\n@\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": "",
"simpleType": "List<RecurringCharge>",
"variableSetterType": "java.util.Collection<RecurringCharge>"
},
"xmlnsSpaceUri": null
},
"Open Source Used In MSX SD-WAN Service Pack 4.0.0 9916
"ReservationName" : {
  "beanStyleGetterMethodName" : "getReservationName",
  "beanStyleSetterMethodName" : "setReservationName",
  "c2jName" : "ReservationName",
  "c2jShape" : "ReservationToken",
  "defaultConsumerFluentSetterDocumentation" : "<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>
  "fluentSetterMethodName" : "reservationName",
  "getterDocumentation" : "<p>The customer-specified identifier to track this reservation.</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" : "ReservationName",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ReservationName",
    "uri" : false
  },
  "idempotencyToken" : false,
  "documentation" : "The customer-specified identifier to track this reservation.",
  "deprecated" : false,
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservationName",
  "fluentSetterDocumentation" : "The customer-specified identifier to track this reservation.",
  "fluentSetterMethodName" : "reservationName",
  "getterDocumentation" : "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" : "<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>
\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 String.Builder#build()\} is called immediately and its result is passed to \{@link #reservedElasticsearchInstanceId(String)\}.\n\n@see
\n#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",
"fluentSetterMethodName": "reservedElasticsearchInstanceId",
"getterDocumentation": "<p>The unique identifier for the reservation.</p>
@param reservedElasticsearchInstanceId The unique identifier for the reservation.
@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": "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>
@param reservedElasticsearchInstanceId The unique identifier for the reservation.
@return The unique identifier for the reservation.",
"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
},
"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 class String.Builder avoiding the need to create one manually via String#builder().
When the method completes, String.Builder#build() is called immediately and its result is passed to reservedElasticsearchInstanceOfferingId(String) a consumer that will call methods on String.Builder.
Returns a reference to this object so that method calls can be chained together.
"@see #reservedElasticsearchInstanceOfferingId(String)",
  "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 Returns a reference to this object so that method calls can be chained together.
"@see #reservedElasticsearchInstanceOfferingId(String)",
  "getterDocumentation" : "<p>The offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId The offering identifier.
@return The offering identifier.
"@param reservedElasticsearchInstanceOfferingId The offering identifier.
@return Returns a reference to this object so that method calls can be chained together.
}
"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": "The offering identifier.
\n@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": "The offering identifier."
},
"xmlNameSpaceUri": null
},
"StartTime": {
"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)}. 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,
"enumType" : null,
"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.

@see #startTime(Instant)",
"fluentSetterMethodName" : "startTime",
"getterDocumentation" : "The time the reservation started.
@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" : "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" : "The time the reservation started.",
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"State" : {
"beanStyleGetterMethodName" : "getState",
"beanStyleSetterMethodName" : "setState",
"c2jName" : "State",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "The state of the reserved Elasticsearch instance."
"defaultConsumerFluentSetterDocumentation" : "The state of the reserved Elasticsearch instance.",
"deprecated" : false,
"documentation" : "The state of the reserved Elasticsearch instance.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "state",
"fluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
@returns The state of the reserved Elasticsearch instance.",
"fluentSetterMethodName" : "state",
"getterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
@returns 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",
"setterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
@returns 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()}. When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link #usagePrice(Double)}. When the {@link Double.Builder} completes, the rate is returned. Returns a reference to this object so that method calls can be chained together.
@see #usagePrice(Double)",
"deprecated" : false,
"documentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.",
"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.
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)}. Returns a reference to this object so that method calls can be chained together.
@see #usagePrice(Double)",
"getterDocumentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.",
"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.
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)}. Returns a reference to this object so that method calls can be chained together.
@see #usagePrice(Double)",
"getterDocumentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.",
"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" : "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" : "The rate you are charged for each hour for the domain that is using this reserved instance.",
  "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>\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 #reservationName(String)].\n\n@param reservationName 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 #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>\n@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.\n@see #reservationName(String)",
  "fluentSetterMethodName" : "reservationName",
  "getterDocumentation" : "<p>The customer-specified identifier to track this reservation.</p>\n@return The customer-specified identifier to track this reservation."
},
"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",
"敏感" : 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)].
@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" : "The unique identifier for the reservation.",
"enumType" : null,
"endpointDiscoveryId" : false,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluent_enum_setter_method_name" : null,
"fluent_method_name" : "reserved_elasticsearch_instance_id",
"fluent_setter_documentation" : "<p>The unique identifier for the reservation.</p>
@param reserved_elasticsearch_instance_id The unique identifier for the reservation.
@return Returns a reference to this object so that method calls can be chained together."
"fluent_setter_method_name" : "reserved_elasticsearch_instance_id",
"getter_documentation" : "<p>The unique identifier for the reservation.</p>
@return The unique identifier for the reservation."
"getter_model" : {
"return_type" : "String",
"documentation" : null
},
"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" : "ReservedElasticsearchInstanceId",
"query_string" : false,
"status_code" : false,
"unmarshall_location_name" : "ReservedElasticsearchInstanceId",
"uri" : false
},
"idempotency_token" : false,
"is_binary" : false,
"json_value" : false,
"list" : false,
"list_model" : null,
"map" : false,
"map_model" : null,
"marshalling_type" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"sensitive" : false,
"setter_documentation" : "<p>The unique identifier for the reservation.</p>
@param reserved_elasticsearch_instance_id The unique identifier for the reservation."
"setter_method_name" : "setReservedElasticsearchInstanceId",
"setter_model" : {
"variable_declaration_type" : "String",
"variable_name" : "reserved ElasticsearchInstanceId",
"variable_type" : "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"
},
"xmlnsNameSpaceUri" : null}
}, {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "<p>The 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, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #reservedElasticsearchInstanceOfferingId(String)].

@deprecated

@returns

A reference to this object so that method calls can be chained together.

@see

#reservedElasticsearchInstanceOfferingId(String)",
  "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>
@returns

A reference to this object so that method calls can be chained together.
",
  "fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
  "getterDocumentation" : "<p>The offering identifier.</p>
@returns

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",
"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
},
"c2jName" : "ElasticsearchInstanceType",}
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p>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 [elasticsearchInstanceTypeAsString(String)].

@see espartitioninstanceType

@deprecated

@see #elasticsearchInstanceType

@param elasticsearchInstanceType 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 #elasticsearchInstanceType

@end<p>

"documentation" : "The Elasticsearch instance type offered by the reserved instance offering.

@end<p>"

"defaultConsumerFluentSetterDocumentation" : "<p>When the [Consumer] completes, [String.Builder.build()] is called immediately and its result is passed to [elasticsearchInstanceTypeAsString(String)].

@see espartitioninstanceType

@deprecated

@see #elasticsearchInstanceType

@param elasticsearchInstanceType 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 #elasticsearchInstanceType

@end<p>

"documentation" : "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, [espartitioninstanceType] will return [UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [espartitioninstanceTypeAsString].

@see espartitioninstanceType

@deprecated

@see #elasticsearchInstanceType

@param elasticsearchInstanceType 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 #elasticsearchInstanceType

@end<p>

"documentation" : "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, [espartitioninstanceType] will return [UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [espartitioninstanceTypeAsString].

@see espartitioninstanceType

@deprecated

@see #elasticsearchInstanceType

@param elasticsearchInstanceType 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 #elasticsearchInstanceType

@end<p>"
"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;
@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.
@see EPartitionInstanceType",
"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" : "&lt;p&gt;The Elasticsearch instance type offered by the reserved instance offering.&lt;/p&gt;",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getStartTime",
  "beanStyleSetterMethodName" : "setStartTime",
  "c2jName" : "StartTime",
  "c2jShape" : "UpdateTimestamp",
  "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The time the reservation started.&lt;/p&gt;
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)}.
@see #startTime(Instant)
@param startTime 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 #startTime(Instant)",
  "deprecated" : false,
  "documentation" : "&lt;p&gt;The time the reservation started.&lt;/p&gt;",
  "endpointDiscoveryId" : false,
  "enumType" : null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "startTime",
"fluentSetterMethodName": "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.",
"getterDocumentation": "<p>The time the reservation started.</p>
@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>
@param startTime The time the reservation started.

setterMethod": {
"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"
},
"xmlNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getDuration",
  "beanStyleSetterMethodName" : "setDuration",
  "c2jName" : "Duration",
  "c2jShape" : "Integer",
  "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The duration, in seconds, for which the Elasticsearch instance is reserved.&lt;/p&gt;&lt;n&gt;This is a convenience that creates an instance of the [link Integer.Builder] avoiding the need to create one manually via [link Integer#builder()]. &lt;n&gt;When the [link Consumer] completes, [link Integer.Builder#build()] is called immediately and its result is passed to [link #duration(Integer)].&lt;n&gt;@param duration a consumer that will call methods on [link Integer.Builder]&lt;n&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;n&gt;@see #duration(Integer)&lt;/n&gt;",
  "deprecated" : false,
  "documentation" : "&lt;p&gt;The duration, in seconds, for which the Elasticsearch instance is reserved.&lt;/p&gt;&lt;n&gt;&lt;/n&gt;",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "duration",
  "fluentSetterDocumentation" : "&lt;p&gt;The duration, in seconds, for which the Elasticsearch instance is reserved.&lt;/p&gt;&lt;n&gt;@param duration The duration, in seconds, for which the Elasticsearch instance is reserved.&lt;n&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;/n&gt;",
  "fluentSetterMethodName" : "duration",
  "getterDocumentation" : "&lt;p&gt;The duration, in seconds, for which the Elasticsearch instance is reserved.&lt;/p&gt;&lt;n&gt;@return The duration, in seconds, for which the Elasticsearch instance is reserved.&lt;/n&gt;",
  "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><p>@param duration The duration, in seconds, for which the Elasticsearch instance is reserved.</p>",
"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"
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 `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.builder()`. Returns a reference to this object so that method calls can be chained together.

```java
@returns
```

```

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
```

```java
@returns
```

```

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
```

```java
@returns
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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```java
@returns
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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@returns
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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@returns
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
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```java
@returns
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
```

```java
@returns
```

```

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
```

```java
@returns
```
"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" : "The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering."
},
"variableNameSpaceUri" : 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.</p>
@n\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 #usagePrice(Double)}.\n\n@n@param usagePrice a consumer that will call methods on { @link Double.Builder}\n@n@return Returns a reference to this object so that method calls can be chained together.\n@n@see #usagePrice(Double),
"deprecated" : false,
"documentation" : "The rate you are charged for each hour for the domain that is using this reserved instance."
"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.<br>@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>@return The rate you are charged for each hour for the domain that is using this reserved instance.",
"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 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
},
{
  "beanStyleGetterMethodName": "getCurrencyCode",
  "beanStyleSetterMethodName": "setCurrencyCode",
  "c2jName": "CurrencyCode",
  "c2jShape": "String",
  "defaultConsumerFluentSetterDocumentation": "<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)}. When the {@link String.Builder#build()} is called immediately and its result is passed to {@link #currencyCode(String)} a consumer that will call methods on {@link String.Builder}.

@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>
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)} a consumer that will call methods on {@link String.Builder}.

@see #currencyCode(String)",
  "fluentSetterMethodName": "currencyCode",
  "getterDocumentation": "<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)} a consumer that will call methods on {@link String.Builder}.

@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",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"setterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.",
"setterMethodName" : "setCurrencyCode",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
"beanStyleGetterMethodName" : "getElasticsearchInstanceCount",
"beanStyleSetterMethodName": "setElasticsearchInstanceCount",
"c2jName": "ElasticsearchInstanceCount",
"c2jShape": "Integer",
"defaultValue": "<p>The number of Elasticsearch instances that have been reserved.</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 [ElasticsearchInstanceCount].

@see ElasticsearchInstanceCount

@type Integer

Return a reference to this object so that method calls can be chained together.

The number of Elasticsearch instances that have been reserved.

@type Integer

Return a reference to this object so that method calls can be chained together.

The number of Elasticsearch instances that have been reserved.

@type Integer

Return a reference to this object so that method calls can be chained together.

The number of Elasticsearch instances that have been reserved.
The number of Elasticsearch instances that have been reserved.

```java
@ paramName esasticsearchInstanceCount
```

```java
.setterMethodName "setElasticsearchInstanceCount",
```

```java
.setterModel {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
```

```java
"simple" : true,
```

```java
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>"
```

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 #state(String)}`.

```java
@doc<parameter>
```

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 #state(String)}`.

```java
@doc<parameter>
```

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 #state(String)}`.

```java
"deprecated" : false,
```

```java
"documentation" : "<p>The state of the reserved Elasticsearch instance.</p>"
```

```java
"enumType" : null,
```

```java
"eventHeader" : false,
```

```java
"eventPayload" : false,
```

```java
"fluentEnumGetterMethodName" : null,
```

```java
"fluentEnumSetterMethodName" : null,
```

```java
"xmlNameSpaceUri" : null
```

```java
"c2jName" : "State",
```

```java
"c2jShape" : "String",
```

```java
"defaultConsumerFluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>"
```

```java
"endpointDiscoveryId" : false,
```

```java
"name" : "ElasticsearchInstanceCount",
```

```java
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>"
```

```java
"setterMethodName" : "setElasticsearchInstanceCount",
```

```java
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
```

```java
"simple" : true,
```

```java
"timestampFormat" : null,
```

```java
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
}
```

```java
"xmlNameSpaceUri" : null
```

```java
"c2jName" : "State",
```

```java
"c2jShape" : "String",
```

```java
"defaultConsumerFluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>"
```

```java
"endpointDiscoveryId" : false,
```

```java
"name" : "ElasticsearchInstanceCount",
```

```java
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>"
```

```java
"setterMethodName" : "setElasticsearchInstanceCount",
```

```java
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
```

```java
"simple" : true,
```

```java
"timestampFormat" : null,
```

```java
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
}
```

```java
"xmlNameSpaceUri" : null
```

```java
"c2jName" : "State",
```

```java
"c2jShape" : "String",
```

```java
"defaultConsumerFluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>"
```

```java
"endpointDiscoveryId" : false,
```

```java
"name" : "ElasticsearchInstanceCount",
```

```java
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>"
```

```java
"setterMethodName" : "setElasticsearchInstanceCount",
```

```java
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
```

```java
"simple" : true,
```

```java
"timestampFormat" : null,
```

```java
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
}
```

```java
"xmlNameSpaceUri" : null
```

```java
"c2jName" : "State",
```

```java
"c2jShape" : "String",
```

```java
"defaultConsumerFluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>"
```

```java
"endpointDiscoveryId" : false,
```

```java
"name" : "ElasticsearchInstanceCount",
```

```java
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>"
```

```java
"setterMethodName" : "setElasticsearchInstanceCount",
```

```java
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
```

```java
"simple" : true,
```

```java
"timestampFormat" : null,
```

```java
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
}
```

```java
"xmlNameSpaceUri" : null
```

```java
"c2jName" : "State",
```

```java
"c2jShape" : "String",
```

```java
"defaultConsumerFluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>"
```

```java
"endpointDiscoveryId" : false,
```

```java
"name" : "ElasticsearchInstanceCount",
```

```java
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>"
```

```java
"setterMethodName" : "setElasticsearchInstanceCount",
```

```java
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
```

```java
"simple" : true,
```

```java
"timestampFormat" : null,
```

```java
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
}
```

```java
"xmlNameSpaceUri" : 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",
"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
}, {
  "beanStyleGetterMethodName": "getPaymentOptionAsString",
  "beanStyleSetterMethodName": "setPaymentOption",
  "c2jName": "PaymentOption",
  "c2jShape": "ReservedElasticsearchInstancePaymentOption",
  "defaultConsumerFluentSetterDocumentation": "<p>The payment option as defined in 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[]) }. @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": "<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>",
  "endpointDiscoveryId": false,
  "enumType": "ReservedElasticsearchInstancePaymentOption",
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": "paymentOption",
  "fluentEnumSetterMethodName": "paymentOption",
  "fluentGetterMethodName": "paymentOptionAsString",
  "fluentSetterDocumentation": "<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>
@param paymentOption The payment option as defined in 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>The payment option as defined in 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 The payment option as defined in the reserved Elasticsearch instance offering.
@see ReservedElasticsearchInstancePaymentOption"
",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
"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>
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[]) }. @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": "<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>",
  "endpointDiscoveryId": false,
  "enumType": "ReservedElasticsearchInstancePaymentOption",
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": "paymentOption",
  "fluentEnumSetterMethodName": "paymentOption",
  "fluentGetterMethodName": "paymentOptionAsString",
  "fluentSetterDocumentation": "<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>
@param paymentOption The payment option as defined in 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>The payment option as defined in 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 The payment option as defined in 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" : "\n<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>
@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" : "\n<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>",
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
"xmlNameSpaceUri" : null
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 `List<RecurringCharge>.Builder` avoiding the need to create one manually via `List<RecurringCharge>#builder()`. When the consumer completes, `List<RecurringCharge>.Builder#build()` is called immediately and its result is passed to `#recurringCharges(List<RecurringCharge>)`. Returns a reference to this object so that method calls can be chained together. See `recurringCharges(List<RecurringCharge>)`.

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.

The charge to your account regardless of whether you are creating any domains using the instance offering.

In case you attempt to modify the collection returned by this method, it will raise an UnsupportedOperationException.

The charge to your account regardless of whether you are creating any domains using the instance offering.

Returns a reference to this object so that method calls can be chained together.

Returns a reference to this object so that method calls can be chained together.
"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.\nThis is a convenience that creates an instance of the [RecurringCharge.Builder] avoiding the need to create one manually via [RecurringCharge.Builder].\nWhen the [Consumer] completes, [RecurringCharge.Builder#build()] is called immediately and its result is passed to [RecurringCharge.Builder#build()].\n\n@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.\n\n@see #member(RecurringCharge)",
    "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n\n@see #member(RecurringCharge)",
  "getterModel" : {
    "returnType" : "RecurringCharge",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "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.\nThis is a convenience that creates an instance of the [RecurringCharge.Builder] avoiding the need to create one manually via [RecurringCharge.Builder].\nWhen the [Consumer] completes, [RecurringCharge.Builder#build()] is called immediately and its result is passed to [RecurringCharge.Builder#build()].\n\n@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.\n\n@see #member(RecurringCharge)",
      "fluentSetterMethodName" : "member",
      "getterDocumentation" : "Returns the value of the Member property for this object.\n\n@see #member(RecurringCharge)",
      "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" : "<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
}]},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ReservedElasticsearchInstance",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "ReservedElasticsearchInstance",
"variableName" : "reservedElasticsearchInstance",
"variableType" : "ReservedElasticsearchInstance",
"xmlNameSpaceUri" : null
}
"documentation" : null,
"simpleType" : "ReservedElasticsearchInstance",
"variableSetterType" : "ReservedElasticsearchInstance"
},
"wrapper" : false
},
"ReservedElasticsearchInstanceOffering" : {
"c2jName" : "ReservedElasticsearchInstanceOffering",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "Details of a reserved Elasticsearch instance offering.",
"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" : "getReservedElasticsearchInstanceOfferingId",
        "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
        "c2jName" : "ReservedElasticsearchInstanceOfferingId",
        "c2jShape" : "GUID",
        "defaultConsumerFluentSetterDocumentation" : "The Elasticsearch reserved instance offering 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 [reservedElasticsearchInstanceOfferingId(String)]
@deprecated
@see reservedElasticsearchInstanceOfferingId(String)"
    },
    {
        "documentation" : "The Elasticsearch reserved instance offering identifier.
"endpointDiscoveryId" : false,
        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : null,
    }
]
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.

@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.

@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.

@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier.

@return Returns a reference to this object so that method calls can be chained together.
",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservedElasticsearchInstanceOfferingId",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
The Elasticsearch reserved instance offering identifier.

The Elasticsearch instance type offered by the reserved instance offering.

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, `#elasticsearchInstanceType` will return `#UNKNOWN_TO_SDK_VERSION`. The raw value returned by the service is available from `#elasticsearchInstanceTypeAsString`.

The Elasticsearch instance type offered by the reserved instance offering.
"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",
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "elasticsearchInstanceType",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"setterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
\n@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.
\n@see ESPartitionInstanceType",
"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "elasticsearchInstanceType",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
}
"xmlNameSpaceUri" : null,

"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] 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 #duration(Integer)].
@return 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.

"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.
@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
@return Returns a reference to this object so that method calls can be chained together.
@see #duration(Integer)",
"getterDocumentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.

"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. 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)}. 

@return 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 pay to purchase the specific reserved Elasticsearch instance offering. 
"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "fixedPrice",
"fluentSetterMethodName" : "fixedPrice",
"getterDocumentation" : "\n<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.\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" : "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" : "\n<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."

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. 

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 a consumer that will call methods on Double.Builder\n@see usagePrice(Double).”

The rate you are charged for each hour the domain that is using the offering is running.\n@param usagePrice The rate you are charged for each hour the domain that is using the offering is running.\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",
"sensitive" : false,
"setterDocumentation" : "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" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"}
"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"
},
"xmlnsSpaceUri" : null
],
"beanStyleGetterMethodName" : "getCurrencyCode",
"beanStyleSetterMethodName" : "setCurrencyCode",
"c2jName" : "CurrencyCode",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<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)].

When the [@link Consumer] completes, [@link 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,
"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",
"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" : "getPaymentOptionAsString",
  "beanStyleSetterMethodName" : "setPaymentOption",
  "c2jName" : "PaymentOption",
  "c2jShape" : "ReservedElasticsearchInstancePaymentOption",
  "defaultConsumerFluentSetterDocumentation" : "Payment option 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
String.Builder#build()} is called immediately and its result is passed to { @link
#paymentOptionAsString(String)}. 

@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."}
#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>
<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}.
</p>
@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": "<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"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getRecurringCharges",
"beanStyleSetterMethodName": "setRecurringCharges",
"c2jName": "RecurringCharges",
"c2jShape": "RecurringChargeList",
"defaultConsumerFluentSetterDocumentation": "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
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>)}. This method can be chained together.
@see #recurringCharges(List<RecurringCharge>)",
"deprecated": false,
"documentation": "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>",
"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. 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] and a consumer that will call methods on the 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.

@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" : "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",\n\nOpen Source Used In MSX SD-WAN Service Pack 4.0.0 9065
"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"
},
"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.",
"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
},
"membersAsMap": {
  "CurrencyCode": {
    "beanStyleGetterMethodName": "getCurrencyCode",
    "beanStyleSetterMethodName": "setCurrencyCode",
    "c2jName": "CurrencyCode",
    "c2jShape": "String",
    "defaultConsumerFluentSetterDocumentation": "<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)].
@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 [link #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>
@return The currency code for the reserved Elasticsearch instance offering.
@see [link #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 [link #currencyCode(String)]",
    "getterModel": {
      "returnType": "String",
      "documentation": null
    }
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "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
}
"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.",
"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"
"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)}. @param duration 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 #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",
"fluentSetterMethodName" : "duration",
"getterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>

@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 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" : "<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>
\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\n@return Returns a reference to this object so that method calls can be chained together.\n\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>
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.</p>
@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType",
"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {
"returnType" : "String",
"documentation" : null
},
"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": "The Elasticsearch instance type offered by the reserved instance offering.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"FixedPrice": {
  "beanStyleGetterMethodName": "getFixedPrice",
  "beanStyleSetterMethodName": "setFixedPrice",
  "c2jName": "FixedPrice",
  "c2jShape": "Double",
  "defaultConsumerFluentSetterDocumentation": "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 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 FixedPrice a consumer that will call methods on Double.Builder\n\nReturns a reference to this object so that method calls can be chained together.\n\n@see FixedPrice(Double)",
  "deprecated": false,
  "documentation": "The upfront fixed charge you will pay 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 pay to purchase the specific reserved Elasticsearch instance offering.",
  "fluentSetterMethodName": "fixedPrice",
  "getterDocumentation": "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.",
  "@param fixedPrice The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n\n@see FixedPrice(Double)"
}
reserved Elasticsearch instance offering.

```json
"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."

```
"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",
"defaultValueConsumerFluentSetterDocumentation" : "<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#builder()}. 

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #paymentOptionAsString(String)}.

When the {@link #paymentOptionAsString(String)} is called immediately and its result is passed to {@link #paymentOptionAsString(String)}.

@param paymentOption a consumer that will call methods on {@link String.Builder#build()}.

@return 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",
"fluentSetterMethodName" : "paymentOption",
"fluentSetterDocumentation" : "<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}. 

@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
",
"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}. 

@param paymentOption 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" : "<p>Payment option for the reserved Elasticsearch instance offering</p>\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" : "<p>Payment option for the reserved Elasticsearch instance offering</p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"RecurringCharges" : {
    "beanStyleGetterMethodName" : "getRecurringCharges",
    "beanStyleSetterMethodName" : "setRecurringCharges",}
"c2jName" : "RecurringCharges",
"c2jShape" : "RecurringChargeList",
"defaultConsumerFluentSetterDocumentation" : "<p>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, the
{@link List<RecurringCharge>#builder()} is called immediately and its result is passed to
{@link #recurringCharges(List<RecurringCharge>)}. The charge to your account regardless of whether you are creating any domains using the instance offering.
</p>
@see #recurringCharges(List<RecurringCharge>)
@deprecated : false,
"documentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
"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.
</p>
@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" : "<p>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.
</p>
@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",
    "defaultValueConsumerFluentSetterDocumentation" : "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#build()]. When the [Consumer] completes, [RecurringCharge.Builder#build()] is called immediately and its result is passed to [RecurringCharge.Builder#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.

@see #member(RecurringCharge)

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.

@see #member(RecurringCharge)"

@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,
      "templating" : false,
      "transportUnmarshallers" : [
        "com.amazonaws.services.opsworks/model/RecurringChargeMarshaller"
      ],
      "unmarshallingPath" : null,
      "uriTemplate" : "member/{member}",
      "usesEntitySetMemberScopeTemplate" : false,
      "wrappedValueObject" : false,
      "c2jValueShape" : "Member",
      "javaType" : "java.util.List<RecurringCharge>",
      "name" : "member",
      "parameterName" : "member",
      "type" : "list"
    }
  }
}
"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",
"crypto" : 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"
},
"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.</p>@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" : "<p>The Elasticsearch reserved instance offering identifier.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation": "&lt;p&gt;The Elasticsearch reserved instance offering identifier.&lt;/p&gt;\n@returns {The Elasticsearch reserved instance offering identifier.\nreturn Returns a reference to this object so that method calls can be chained together.},
"fluentSetterMethodName": "reservedElasticsearchInstanceOfferingId",
"getterDocumentation": "&lt;p&gt;The Elasticsearch reserved instance offering identifier.&lt;/p&gt;\n\n@returns {The Elasticsearch reserved instance offering identifier.\nreturn 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": "&lt;p&gt;The Elasticsearch reserved instance offering identifier.&lt;/p&gt;\n\n@returns {The Elasticsearch reserved instance offering identifier.\nreturn The Elasticsearch reserved instance offering identifier.}",
"setterMethodName": "setReservedElasticsearchInstanceOfferingId",
"setterModel": {  "variableDeclarationType": "String",
"variableName": "reservedElasticsearchInstanceOfferingId",
"variableType": "String"  },
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)}. @param usagePrice 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 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>"}

getUsagePrice: {
  "getterDocumentation": "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>@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",
"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"}
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</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 #reservedElasticsearchInstanceOfferingId(String)}\n\n\n\n@deprecated" : false,
"documentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>\n\n@see #reservedElasticsearchInstanceOfferingId(String)",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>\n\n\n\n@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier\n@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>\n\n\n\n@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.
",
"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
{@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the
{@link Consumer} completes, the
{@link String.Builder#build()} is called immediately and its result is passed to
{@link ElasticsearchInstanceType} 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 #elasticsearchInstanceType(String)
",
"deprecated" : false,
"documentation": "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
"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>
<p>If the service returns an enum value that is not available in the current SDK version, [<@link
#elasticsearchInstanceType] will return [<@link ESPartitionInstanceTypeUNKNOWN_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.
@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"
"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" : "The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
  "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} 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)}. When @param duration 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 #duration(Integer)",
  "deprecated" : false,
  "documentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.

@endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "null",
  "fluentEnumSetterMethodName" : "null",
  "fluentGetterMethodName" : "null",
  "fluentSetterDocumentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.

@endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "null",
  "fluentEnumSetterMethodName" : "null",
  "fluentGetterMethodName" : "null",
  "fluentSetterDocumentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.

@endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "null",
  "fluentEnumSetterMethodName" : "null",
  "fluentGetterMethodName" : "null",
  "fluentSetterDocumentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance."}
"getterDocumentation" : "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" : "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"
},
"xmlnsNameSpaceUri" : 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. When the consumer completes, the Double.Builder#build() is called immediately and its result is passed to #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 pay 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 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.\n@see #fixedPrice(Double)",
"deprecated" : false,
"documentation" : "The upfront fixed charge you will pay 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 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.\n@see #fixedPrice(Double)",
"deprecated" : false,
"documentation" : "The upfront fixed charge you will pay 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 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.\n@see #fixedPrice(Double)",
"deprecated" : false,
"documentation" : "The upfront fixed charge you will pay 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 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.\n@see #fixedPrice(Double)",
"deprecated" : false,
"documentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering."
"endpointDiscoveryId" : 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>
@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,
"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#build()}. When the {@link Consumer} completes, {@link Double.Builder#build()}'s result is passed to

```java
@link #usagePrice(Double)
```

`@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.

```java
@see #usagePrice(Double)
```

"deprecated" : false,
"documentation" : "The rate you are charged for each hour the domain that is using the offering is running.\n",
"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.\n",
"fluentSetterMethodName" : "usagePrice",
"getterDocumentation" : "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,
"setterDocumentation" : "The rate you are charged for each hour the domain that is using the offering is running.

@params {
  @name usagePrice
  @type double
  @desc 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" : "The rate you are charged for each hour the domain that is using the offering is running.

@params {
  @name usagePrice
  @type double
  @desc The rate you are charged for each hour the domain that is using the offering is running.
}

"beanStyleGetterMethodName" : "getCurrencyCode",
"beanStyleSetterMethodName" : "setCurrencyCode",
"c2jName" : "CurrencyCode",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.

@params {
  @name currencyCode
  @type String
  @desc The currency code for the reserved Elasticsearch instance offering.
}

"deprecated" : false,
"documentation" : "The currency code for the reserved Elasticsearch instance offering.

@params {
  @name currencyCode
  @type String
  @desc The currency code for the reserved Elasticsearch instance offering.
}

"endpointDiscoveryId" : false,
"enumType" : null,
"eventId" : null,
"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.",
"setterMethodName" : "setCurrencyCode",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
"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",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null

<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"
},
"xmlNameSpaceUri" : null
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 `List<RecurringCharge>.Builder` avoiding the need to create one manually via `List<RecurringCharge>.Builder#builder()`. When the `Consumer` completes, `List<RecurringCharge>.Builder#build()` is called immediately and its result is passed to `List<RecurringCharge>`. A param `recurringCharges` a consumer that will call methods on `List<RecurringCharge>.Builder`.

- `@link Consumer` completes.
- `List<RecurringCharge>.Builder#build()` is called.
- `List<RecurringCharge>` is returned.
- `@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",
- `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 \[@link RecurringCharge.Builder#build()\].

\[@param member\] a consumer that will call methods on \[@link RecurringCharge.Builder\].\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" : 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\n\@param member
\n\@return Returns a reference to this object so that method calls can be chained together.\n"
"getterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

The value of the Member property for this object.\n\n\@return The value of the Member property for this object.\n"
"getterModel" : {
"returnType" : "RecurringCharge",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"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 \[@link RecurringCharge.Builder#build()\].

\[@param member\] a consumer that will call methods on \[@link RecurringCharge.Builder\].\n\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.

The new value for the Member property for this object.
\n\n\@param member
\n\@return Returns a reference to this object so that method calls can be chained together.\n"
"getterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

The value of the Member property for this object.\n\n\@return The value of the Member property for this object.\n"
"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"
},
"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
} ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ReservedElasticsearchInstanceOffering",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "ReservedElasticsearchInstanceOffering",
"variableName" : "reservedElasticsearchInstanceOffering",
"variableType" : "ReservedElasticsearchInstanceOffering",
"variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>"
"variable" : {
  "variableDeclarationType" : "ReservedElasticsearchInstancePaymentOption",
  "variableName" : "reservedElasticsearchInstancePaymentOption",
  "variableType" : "ReservedElasticsearchInstancePaymentOption",
  "documentation" : null,
  "simpleType" : "ReservedElasticsearchInstancePaymentOption",
  "variableSetterType" : "ReservedElasticsearchInstancePaymentOption"
},
"wrapper" : false
},
"ResourceAlreadyExistsException" : {
  "c2jName" : "ResourceAlreadyExistsException",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>An exception for creating a resource that already exists. Gives http status code of 409.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : "ResourceAlreadyExistsException",
  "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" : "ResourceAlreadyExistsException",
  "simpleMethod" : false,
  "unmarshaller" : null,
  "variable" : {
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    "variableName" : "resourceAlreadyExistsException",
    "variableType" : "ResourceAlreadyExistsException",
    "variableSetterType" : "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" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
"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,
  "simpleType" : "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,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": null,
  "marshaller": null,
  "members": [
    "beanStyleGetterMethodName": "getCurrentVersion",
    "beanStyleSetterMethodName": "setCurrentVersion",
    "c2jName": "CurrentVersion",
    "c2jShape": "String",
    "defaultConsumerFluentSetterDocumentation": "The current service software version that is present on the 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 #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)",
    "deprecated": false,
    "documentation": "The current service software version that is present on the domain.",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "currentVersion",
    "fluentSetterDocumentation": "The current service software version that is present on the domain. @param currentVersion The current service software version that is present on the domain. @return Returns a reference to this object so that method calls can be chained together."",
  ]
},
"documentation": "<p>The current options of an Elasticsearch domain service software options.</p>",
"endpointDiscovery": null,
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"fluentSetterMethodName" : "setCurrentVersion",
"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.",
"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,
  "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()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #newVersion(String)}.\n\n@deprecated\n@param newVersion a consumer that will call methods on { @link String.Builder}\n@see #newVersion(String)",

"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>
@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."
"fluentSetterMethodName" : "newVersion",
"getterDocumentation" : "<p>The new service software version if one is available.</p>
@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",
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] completes, [Boolean.Builder.build()] is called immediately and its result is passed to a consumer that will call methods on a consumer that will call methods on [Boolean.Builder].

@returns a reference to this object so that method calls are chained.
can be chained together.

@see updateAvailable(Boolean)

True if you are able to update your service software version. False if you are not able to update your service software version.

@code
True
@endcode

return

Returns a reference to this object so that method calls can be chained together.

getterName : updateAvailable

@code
true
@endcode

return

getterName : updateAvailable

@code
true
@endcode

return

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 your service software version. <code>False</code>,
"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>",
  "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. 
</p>@param cancellable a consumer that will call methods on 
(Boolean)\n@returns Returns a reference to this object so that method calls can be chained together.\n@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>@param cancellable a consumer that will call methods on 
(Boolean)\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #cancellable(Boolean)"
}
if you are able to cancel your service software version. </p>
@media 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 update. <code>False</code> if you are not able to cancel your service software version. </p>
@media cancellable True</code> if you are able to cancel your service software version update. <code>False</code>
@media cancellable True</code> if you are able to cancel your service software version update. <code>False</code>
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"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>. 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()</code>. When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to <code>DeploymentStatus</code>.
@see String
@returns a reference to this object so that method calls can be chained together.
@see DeploymentStatus(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>. 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()</code>. When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to <code>DeploymentStatus</code>.
@see String
@returns a reference to this object so that method calls can be chained together.
@see DeploymentStatus(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>. 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>. Returns a reference to this object so that method calls can be chained together.
@see DeploymentStatus
@returns a reference to this object so that method calls can be chained together.
@see DeploymentStatus",
"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].

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: <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,
}
The status of your service software update. This field can take the following values:

- **ELIGIBLE**
- **PENDING_UPDATE**
- **IN_PROGRESS**
- **COMPLETED**
- **NOT_ELIGIBLE**

The description of the `UpdateStatus`.

This is a convenience that creates an instance of the `StringBuilder` avoiding the need to create one manually via `String.Builder().

When the `Consumer` completes, `StringBuilder.build()` is called immediately and its result is passed to `String.valueOf(StringBuilder)

Returns a reference to this object so that method calls can be chained together.

## Description

- **deprecated**: false
- **documentation**: "The description of the `UpdateStatus`.

## Getter

- **get**

## Setter

- **set**
The description of the `<code>UpdateStatus</code>`.

@param description

The description of the `<code>UpdateStatus</code>`.

@code

```json
{
    "variable" : {
        "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>`.

@code

```
"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#builder()}.\n\nWhen the {@link Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to {@link automatedUpdateDate(Instant)}.\n\n@param automatedUpdateDate a consumer that will call methods on {@link Instant.Builder}\n\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\nendpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"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.\n\nendpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"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.\n\nendpointDiscoveryId": false,
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"eventHeader": false,
"eventPayload": false,
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"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"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.\n\nendpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
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"fluentEnumSetterMethodName": null,
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"eventHeader": false,
"eventPayload": false,
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"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"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.\n\nendpointDiscoveryId": false,
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"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
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"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.\n\nendpointDiscoveryId": false,
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"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"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.\n\nendpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"fluentSetterMethodName": "automatedUpdateDate",
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"eventHeader": false,
"eventPayload": false,
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"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"fluentSetterMethodName": "automatedUpdateDate",
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"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"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.\n\nendpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"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.\n\nendpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "automatedUpdateDate",
"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.\n\nendpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
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"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.

"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
},

"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()}.

When the {@link Consumer} completes, {
关键时刻
Instant.Builder#build()} is called immediately and its result is passed to { @link 
automatedUpdateDate(Instant)}.<a>@param automatedUpdateDate a consumer that will call methods on { @link 
Instant.Builder }}</a><a>\n@return Returns a reference to this object so that method calls can be chained together.</a>
@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>
@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.",
"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.",
"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.",
"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,
"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. </code>
  <code>False</code> if you are not able to cancel your service software version. </p>
  "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>
  "endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cancellable",
"fluentSetterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to cancel your service software version update. &lt;code&gt;False&lt;/code&gt; if you are not able to cancel your service software version. &lt;/p&gt;\n\n@param cancellable True&lt;/code&gt; if you are able to cancel your service software version update. &lt;code&gt;False\n\n@return Returns a reference to this object so that method calls can be chained together."",
"fluentSetterMethodName" : "cancellable",
"getterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to cancel your service software version update. &lt;code&gt;False&lt;/code&gt; if you are not able to cancel your service software version. &lt;/p&gt;\n\n@return Returns a reference to this object so that method calls can be chained together.
\n\nTrue&lt;/code&gt; if you are able to cancel your service software version update. &lt;code&gt;False\n\n@return Returns a reference to this object so that method calls can be chained together.
\n\nTrue&lt;/code&gt; if you are able to cancel your service software version update. &lt;code&gt;False",
"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" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to cancel your service software version update. &lt;code&gt;False&lt;/code&gt; if you are not able to cancel your service software version. &lt;/p&gt;\n\n@param cancellable True&lt;/code&gt; if you are able to cancel your service software version update. &lt;code&gt;False",
"setterMethodName" : "setCancellable",  

"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "cancellable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "cancellable",
  "variableType" : "Boolean",
  "documentation" : null,
  "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>
  <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)}. Returns a reference to this object so that method calls can be chained together.\n  
  \n  @param currentVersion 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 #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>
  <p>The current service software version that is present on the domain.\n  \n  @param currentVersion The current service software version that is present on the domain.\n  \n  @return Returns a reference to this object so that method calls can be chained together.\n  
  @see #currentVersion(String)",
  "getterDocumentation" : "<p>The current service software version that is present on the domain.</p>
  \n  @return The current service software version that is present on the domain.\n  \n  @see #currentVersion(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" : "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",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "currentVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"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,
"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()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link 
#description(String)}. The description of the <code>UpdateStatus</code>. 
@param description 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 #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" : "<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.",
"fluentSetterMethodName" : "description",
"getterDocumentation" : "<p>The description of the <code>UpdateStatus</code>.</p>
@return The description of the <code>UpdateStatus</code>.
@see #description(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" : "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>.</p>
@param description

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" : "<p>The description of the <code>UpdateStatus</code>.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
},
"NewVersion" : {
"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)}. 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",
"fluentSetterMethodName" : "newVersion",
"fluentSetterDocumentation" : "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.",
"getterDocumentation" : "The new service software version if one is available.
@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" : "The new service software version if one is available.
@param newVersion The new service software version if one is available.",
"setterMethodName" : "setNewVersion",
"setterModel" : {
"variableDeclarationType" : "String",
}}
"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><h4>@param updateAvailable True</h4> 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"
  },
"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "Boolean",
    "variableName": "updateAvailable",
    "variableType": "Boolean",
    "documentation": null,
    "simpleType": "Boolean",
    "variableSetterType": "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>",
"complexType": "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>. </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 #updateStatusAsString(String)}.
@deprecated : false,
"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>. </p>
"enumType": "DeploymentStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "updateStatus",
"fluentEnumSetterMethodName": "updateStatus",
"fluentGetterMethodName": "updateStatusAsString",
"fluentSetterDocumentation": "<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>
@see DeploymentStatus
@return Returns a reference to this object so that method calls can be chained together.
@see #updateStatus(String)",
"deprecated": false,
"endpointDiscoveryId": false,
"enumType": "DeploymentStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "updateStatus",
"fluentEnumSetterMethodName": "updateStatus",
"fluentGetterMethodName": "updateStatusAsString",
"fluentSetterDocumentation": "<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>
@see DeploymentStatus
@return Returns a reference to this object so that method calls can be chained together.
@see DeploymentStatus",
"deprecated": false,
"endpointDiscoveryId": false,
"enumType": "DeploymentStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "updateStatus",
"fluentEnumSetterMethodName": "updateStatus",
"fluentGetterMethodName": "updateStatusAsString",
"fluentSetterDocumentation": "<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>
@see DeploymentStatus
@return Returns a reference to this object so that method calls can be chained together.
@see DeploymentStatus",
"deprecated": false,
"endpointDiscoveryId": false,
"enumType": "DeploymentStatus",
"eventHeader": false,
"eventPayload": false,
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>.\n</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>.\n@see DeploymentStatus",
"setterMethodName" : "setUpdateStatus",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "updateStatus",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"\nOpen Source Used in MSX SD-WAN Service Pack 4.0.0 10026\n"
"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>.
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getCurrentVersion",
  "beanStyleSetterMethodName" : "setCurrentVersion",
  "c2jName" : "CurrentVersion",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "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()}.\n\nWhen the } @link Consumer} completes, } @link String.Builder#build() is called immediately and its result is passed to } @link #currentVersion(String).\n@param currentVersion 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 #currentVersion(String)
"deprecated" : false,
"documentation" : "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" : "The current service software version that is present on the domain.<p>\n\n@param currentVersion The current service software version that is present on the domain.\n@return Returns a reference to this object so that method calls can be chained together.\n
"fluentSetterMethodName" : "currentVersion",
"getterDocumentation" : "The current service software version that is present on the domain.<p>\n\n@return The current service software version that is present on the 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": "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",
"complexType": "CurrentVersion",
"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
},

"defaultConsumerFluentSetterDocumentation": "<p>The new service software version if one is available.</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 [newVersion(String)].

@see #newVersion(String)"

"deprecated": false,
"documentation": "<p>The new service software version if one is available.</p>

@see #newVersion(String)"

"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>

@see #newVersion(String)"

"fluentSetterMethodName": "newVersion",
"getterDocumentation": "<p>The new service software version if one is available.</p>

@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,
"marshallerType" : "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>
@param newVersion
The new service software version if one is available.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
},
{ "beanStyleGetterMethodName" : "getUpdateAvailable",
"beanStyleSetterMethodName" : "setUpdateAvailable",
"c2jName" : "UpdateAvailable",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<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>
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)].
@param updateAvailable 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 #updateAvailable(Boolean)",
  "deprecated" : false,
  "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>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "updateAvailable",
  "fluentSetterDocumentation" : "<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. &lt;/p&gt;\n@attr updateAvailable
True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False\n@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\nreturn True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False",
"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",
"simpleType" : false,
"setterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version.
&lt;code&gt;False\nreturn True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;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>",
  "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. </p>
When the {@link Consumer} completes, {@link Boolean.Builder} 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>",
"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>
@param cancellable True</code> if you are able to cancel your service software version update. <code>False
@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>
\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" : "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>\n@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. </p>\n
"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>\n"simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null,
}, {
"beanStyleGetterMethodName" : "getUpdateStatusAsString",
"beanStyleSetterMethodName" : "setUpdateStatus",
"c2jName" : "UpdateStatus",
"c2jShape" : "DeploymentStatus",
"defaultConsumerFluentSetterDocumentation" : "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>. 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. 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>. 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 the consumer that will call methods on the String.Builder. Returns a reference to this object so that method calls can be chained together.

"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>. Returns a reference to this object so that method calls can be chained together.

"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 the raw value returned by the service. 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>. 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" : "UpdateStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : 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@see DeploymentStatus</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>.
@see DeploymentStatus".
"setterMethodName" : "setUpdateStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "updateStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"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 { @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
#description(String)}.\n@param description 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 #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" : "<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.",
  "fluentSetterMethodName" : "description",
  "getterDocumentation" : "<p>The description of the <code>UpdateStatus</code>.</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" : "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" : "&lt;p&gt;The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.&lt;/p&gt;\n@param description \nThe description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.",
"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" : "&lt;p&gt;The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.&lt;/p&gt;\n"simple" : true,
  "variableSetterType" : "String"
},
"xmlnsNamespaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getAutomatedUpdateDate",
  "beanStyleSetterMethodName" : "setAutomatedUpdateDate",
  "c2jName" : "AutomatedUpdateDate",
  "c2jShape" : "DeploymentCloseDateTimeStamp",
  "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.&lt;/p&gt;\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@see #automatedUpdateDate(Instant)\n@deprecated\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #automatedUpdateDate(Instant)"
"deprecated" : false,
"documentation" : "&lt;p&gt;Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.&lt;/p&gt;\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@param automatedUpdateDate a consumer that will call methods on [@link Instant.Builder]\n@see #automatedUpdateDate(Instant)\n@deprecated\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #automatedUpdateDate(Instant)"}
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.

```
"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" : "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": false,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": 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>
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}.<br>When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #automatedSnapshotStartHour(Integer)}.<br>@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.<br>@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></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
},
"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",
"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></p>

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.</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 #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>
@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",

"simple": true,

"timestampFormat": null,

"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "automatedSnapshotStartHour",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},

"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": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
}
"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 \&lt;code\>0\&lt;/code\> hours.</p>",
"simpleType" : "Integer",
"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>
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)].

When the [link Consumer] completes, [link Integer.Builder#build()] is called immediately and its result is passed to [link AutomatedSnapshotStartHour(Integer)].

@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.
  @see #automatedSnapshotStartHour(Integer)",
  "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.
  @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.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #automatedSnapshotStartHour(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" : "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
}]},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "SnapshotOptions",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"wrapper" : false
},
"SnapshotOptionsStatus" : {
  "c2jName" : "SnapshotOptionsStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "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,
  "marshaller" : null,
  "members" : [{
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
"xmlNameSpaceUri" : null
}]},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "SnapshotOptions",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"wrapper" : false
},
"SnapshotOptionsStatus" : {
  "c2jName" : "SnapshotOptionsStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "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,
"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 {@link SnapshotOptions.Builder} avoiding the need to create one manually via {@link SnapshotOptions#builder()}.
\nWhen the [{@link Consumer} completes, {@link SnapshotOptions.Builder#build()} is called immediately and its result is passed to [{@link #options(SnapshotOptions)}].\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@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.
@see #options(SnapshotOptions)",
"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": "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>
@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>
  "simple": false,
  "timestampFormat": null,
  "variable": {
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    "variableName": "options",
    "variableType": "SnapshotOptions",
    "documentation": "<p>Specifies the status of a daily automated snapshot.</p>
    
    "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",
    "fluentSetterMethodName": "status",
  }
},
"xmlNameSpaceUri": null,
"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of a daily automated snapshot.</p>
  <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#build}(). 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,
"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
},
"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" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p>Specifies the status of a daily automated snapshot.</p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlnsNameSpaceUri" : null
},
"membersAsMap" : {
  "Options" : {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "SnapshotOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</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()}.<p>
    When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link #options(SnapshotOptions)}.<p>
    @param params a consumer that will call methods on { @link SnapshotOptions.Builder}<p>
    @return Returns a reference to this object so that method calls can be chained together.<p>
    <p>@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>
    <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()}.<p>
    When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link #options(SnapshotOptions)}.<p>
    @param params a consumer that will call methods on { @link SnapshotOptions.Builder}<p>
    @return Returns a reference to this object so that method calls can be chained together.<p>
    <p>@see #options(SnapshotOptions)",
    "getterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</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()}.<p>
    When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link #options(SnapshotOptions)}.<p>
    @param params a consumer that will call methods on { @link SnapshotOptions.Builder}<p>
    @return Returns a reference to this object so that method calls can be chained together.<p>
    <p>@see #options(SnapshotOptions)",
    "getterModel" : {
      "returnType" : "SnapshotOptions",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
Specifies the daily snapshot options specified for the Elasticsearch domain.

```java
public void setOptions(SnapshotOptions options)
```
"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, it is called immediately and its result is passed to<br>builder().

@link OptionStatus.Builder\n@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
@return Returns a reference to this object so that method calls can be chained together.
@link OptionStatus.Builder\n@see #status(OptionStatus)",
"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,
Specifies the status of a daily automated snapshot.

```java
@Param status
```

```
<param> Specifies the status of a daily automated snapshot. </param>
```

```java
@setterMethodName 'setStatus'
```

```
<setterDocumentation>
Specifies the status of a daily automated snapshot.
</setterDocumentation>
```

```java
@variableDeclarationType 'OptionStatus'
```

```
<variableName> status </variableName>
```

```
<variableType> OptionStatus </variableType>
```

```
<documentation>
Specifies the status of a daily automated snapshot.
</documentation>
```

```
<variableSetterType> OptionStatus </variableSetterType>
```

```
<xmlNameSpaceUri> null </xmlNameSpaceUri>
```
"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.",
"fluentSetterMethodName" : "options",
"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,
  "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>
@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"
"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>
Specifies the status of a daily automated snapshot.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>
Specifies the status of a daily automated snapshot.
@return Specifies the status of a daily automated snapshot.
getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : 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": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p>Specifies the status of a daily automated snapshot.</p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
}]
,"requestSignerAware": false,
,"requestSignerClassFqcn": 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,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for the parameters to the <a>StartElasticsearchServiceSoftwareUpdate</a> operation. Specifies the name of the Elasticsearch domain that you wish to schedule 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" : "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": "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 [@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 domain that you want to update to the latest service software.
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)",
"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.

@param domainName The name of the domain that you want to update to the latest service software.
@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 domain that you want to update to the latest service software.

@return The name of the domain that you want to update to the latest service software.
@see #domainName(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": "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 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.

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 object so that method calls can be chained together.

@see #domainName(String)"
},
"xmlnsSpaceUri" : null
},
"membersAsMap" : {
  "DomainName" : {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "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 Consumer completes, String.Builder#build() is called immediately and its result is passed to the object so that method calls can be chained together.

@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,
"eventId" : 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>
@param domainName The name of the domain that you want to update to the latest service 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>
@return 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.
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String"}
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 `Consumer` completes, `domainName(String)` is called immediately and its result is passed to `domainName(String)`. A consumer that will call methods on `String.Builder#build()` is returned. A reference to this object so that method calls can be chained together.

```
@see #domainName(String)
```

```
@deprecated
```

The name of the domain that you want to update to the latest service software.

```
@endpointDiscoveryId
```

```
@eventHeader
```

```
@eventPayload
```

```
@fluentEnumMethodName
```

```
@fluentEnumSetterMethodName
```

```
@getterDocumentation
```

```
@getterModel
```

```
@http
```

```
@simple
```

```
@simpleType
```

```
@variable
```

```
@variableDeclarationType
```

```
@variableName
```

```
@variableSetterType
```

```
@xmlNameSpaceUri
```

```
@nonStreamingMembers
```

```
@beanStyleGetterMethodName
```

```
@beanStyleSetterMethodName
```

```
@c2jName
```

```
@c2jShape
```

```
@defaultConsumerFluentSetterDocumentation
```

```
@endpointDiscoveryId
```

```
@enumType
```

```
@eventHeader
```

```
@eventPayload
```

```
@fluentEnumGetterMethodName
```

```
@fluentEnumSetterMethodName
```

```
@fluentGetterMethodName
```

```
@fluentSetterDocumentation
```

```
@getterDocumentation
```

```
@getterModel
```

```
@http
```

```
@simple
```

```
@simpleType
```

```
@variable
```

```
@variableDeclarationType
```

```
@variableName
```

```
@variableSetterType
```

```
@xmlNameSpaceUri
```

```
@nonStreamingMembers
```

```
@beanStyleGetterMethodName
```

```
@beanStyleSetterMethodName
```

```
@c2jName
```

```
@c2jShape
```

```
@defaultConsumerFluentSetterDocumentation
```

```
@endpointDiscoveryId
```

```
@enumType
```

```
@eventHeader
```

```
@eventPayload
```

```
@fluentEnumGetterMethodName
```

```
@fluentEnumSetterMethodName
```

```
@fluentGetterMethodName
```

```
@fluentSetterDocumentation
```

```
@getterDocumentation
```

```
@getterModel
```

```
@http
```
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.
",
"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"
},
"xmlNameSpaceUri" : null
"requestSignerAware" : false,
"requestSignerClassFqcn" : 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 StartElasticsearchServiceSoftwareUpdate 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",
    "c2jShape" : "ServiceSoftwareOptions",
    "defaultConsumerFluentSetterDocumentation" : "The current status of the Elasticsearch service software update."
  } ]
}
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)}.

When the Consumer completes, {@link ServiceSoftwareOptions.Builder#build()} is called immediately and its result is passed to {@link #serviceSoftwareOptions(ServiceSoftwareOptions)}.

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
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    return this.serviceSoftwareOptions;
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@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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public ServiceSoftwareOptions getServiceSoftwareOptions()
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    return this.serviceSoftwareOptions;
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@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
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@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
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    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
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    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

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@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
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```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
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@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
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@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
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    return this.serviceSoftwareOptions;
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@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
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    return this.serviceSoftwareOptions;
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public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
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    return this.serviceSoftwareOptions;
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
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    return this.serviceSoftwareOptions;
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
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    return this.serviceSoftwareOptions;
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@Deprecated
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
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    return this.serviceSoftwareOptions;
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
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@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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public ServiceSoftwareOptions getServiceSoftwareOptions()
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    this.serviceSoftwareOptions = serviceSoftwareOptions;
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public ServiceSoftwareOptions getServiceSoftwareOptions()
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@Deprecated
public void setServiceSoftwareOptions(ServiceSoftwareOptions serviceSoftwareOptions)
{
    this.serviceSoftwareOptions = serviceSoftwareOptions;
}
```

```
@Deprecated
public ServiceSoftwareOptions getServiceSoftwareOptions()
{
    return this.serviceSoftwareOptions;
}
```

```
"name" : "ServiceSoftwareOptions",
"setterDocumentation" : "The current status of the Elasticsearch service software update.
@summary
serviceSoftwareOptions The current status of the Elasticsearch service software update.
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"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
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 "variableName" : "serviceSoftwareOptions",
 "variableType" : "ServiceSoftwareOptions",
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 "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
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 "variableName" : "serviceSoftwareOptions",
 "variableType" : "ServiceSoftwareOptions",
 "documentation" : "The current status of the Elasticsearch service software update.
",
 "simpleType" : "ServiceSoftwareOptions",
 "variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
 "ServiceSoftwareOptions" : {
 "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
 "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
 "c2jName" : "ServiceSoftwareOptions",
 "c2jShape" : "ServiceSoftwareOptions",
 "defaultConsumerFluentSetterDocumentation" : "The current status of the Elasticsearch service software update.
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 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(Consumer)",
 "deprecated" : false,
 "documentation" : "The current status of the Elasticsearch service software update.
",
 "endpointDiscoveryId" : false,
 "enumType" : null,
 "fluentGetterMethodName" : "serviceSoftwareOptions",
 "fluentSetterDocumentation" : "The current status of the Elasticsearch service software update.

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The current status of the Elasticsearch service software update.

@returns

Returns a reference to this object so that method calls can be chained together.

@fluentSetterMethodName

"fluentSetterMethodName": "serviceSoftwareOptions",

@getterDocumentation

"getterDocumentation": "The current status of the Elasticsearch service software update.

getterModel" : {

"returnType" : "ServiceSoftwareOptions",

"documentation" : null
},

"http" : {

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"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",

"setterDocumentation" : "The current status of the Elasticsearch service software update.

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()}.\n\nWhen the { @link Consumer} completes, { @link ServiceSoftwareOptions.Builder#build()} is called immediately and its result is passed to { @link #serviceSoftwareOptions(ServiceSoftwareOptions)}\n@param 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 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>
The current status of the Elasticsearch service software update.\n@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>\n@return The current status of the Elasticsearch service software update."
"getterModel" : {
    "returnType" : "ServiceSoftwareOptions",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
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    "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,
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"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "ServiceSoftwareOptions",
"simple": 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": {
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  "variableName": "serviceSoftwareOptions",
  "variableType": "ServiceSoftwareOptions",
  "documentation": null,
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  "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
}].
"requestSignerAware": false,
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StringBuilderInterface\n\n@return Returns a reference to this object so that method calls can be chained together.\n\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
\n\n@param storageTypeName The new value for the StorageTypeName property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n    "fluentSetterMethodName" : "storageTypeName",
    "getterDocumentation" : "Returns the value of the StorageTypeName property for this object.\n
\n\n@param The value of the StorageTypeName property for this object.\n    "getterModel" : {
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        "documentation" : null
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\n    "http" : {
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        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "StorageTypeName",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "StorageTypeName",
        "uri" : false
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    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
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    "mapModel" : null,
    "marshallingType" : "STRING",
    "name" : "StorageTypeName",
    "sensitive" : false,
    "setterDocumentation" : "Sets the value of the StorageTypeName property for this object.\n\n\n@param
storageTypeName The new value for the StorageTypeName property for this object.

"setterMethodName" : "setStorageTypeName",
"setterModel" : {
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  "variableName" : "storageTypeName",
  "variableType" : "String",
  "documentation" : null,
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  "variableSetterType" : "String"
},
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  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
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"xmlnsNameSpaceUri" : null,

"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 { @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)",
"deprecated" : false,
"documentation" : ",",
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"enumType" : null,
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"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
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"fluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.
@returns Returns a reference to this object so that method calls can be chained together.,
"fluentSetterMethodName" : "storageSubTypeName",
"getterDocumentation" : "Returns the value of the StorageSubTypeName property for this object.
@returns The value of the StorageSubTypeName property for this object.,

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"getterModel": {
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  "documentation": null
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  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
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  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "StorageSubTypeName",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "StorageSubTypeName",
  "uri": false
},
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"jsonValue": false,
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"map": false,
"mapModel": null,
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" sensitive": false,
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"setterModel": {
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  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
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"variable": {
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  "variableType": "String",
  "documentation": ""
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"variableSetterType" : "String"
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"xmlNameSpaceUri" : null
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"beanStyleSetterMethodName" : "setStorageTypeLimits",
"c2jName" : "StorageTypeLimits",
"c2jShape" : "StorageTypeLimitList",
"defaultConsumerFluentSetterDocumentation" : "List of limits that are applicable for given storage type. 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>)}]

@returns Returns a reference to this object so that method calls can be chained together.@see #storageTypeLimits(List<StorageTypeLimit>)
",
"deprecated" : false,
"documentation" : "List of limits that are applicable for given storage type. 

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. 

@param storageTypeLimits List of limits that are applicable for given storage type. 

@returns 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. 

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@Getter

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.\n\nThis is a convenience that creates an instance of the \nStorageTypeLimit.Builder\n avoiding the need to create one manually via \nStorageTypeLimit.Builder\n.\nWhen the \nConsumer\n completes,\nStorageTypeLimit.Builder#build() is called immediately and its result is passed to \nStorageTypeLimit.Builder\n a consumer that will call methods on \nStorageTypeLimit.Builder\n\nReturns a reference to this object so that method calls can be chained together.\nsee \nStorageTypeLimit\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\nReturns the value of the Member property for this object.\n\nThe new value for the Member property for this object.\n\nReturns 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\nReturns The value of the Member property for this object.\n",
    "getterModel" : {
      "returnType" : "StorageTypeLimit",
      "documentation" : null
    }
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flatlined" : 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": "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. \n@param storageTypeLimits List of limits that are applicable for given storage type.\n</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. \n</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.\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 #storageSubTypeName(String)}.
\n@param storageSubTypeName 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 #storageSubTypeName(String)",
    "deprecated": false,
    "documentation": ""
  },
  "StorageSubTypeSubTypeName": {
    "beanStyleGetterMethodName": "getStorageSubTypeSubTypeName",
    "beanStyleSetterMethodName": "setStorageSubTypeSubTypeName",
    "c2jName": "StorageSubTypeSubTypeName",
    "c2jShape": "StorageSubTypeSubTypeName",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the StorageSubTypeSubTypeName 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 #storageSubTypeSubTypeName(String)}.
\n@param storageSubTypeSubTypeName 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 #storageSubTypeSubTypeName(String)",
    "deprecated": 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.
\n@param storageSubTypeName The new value for the StorageSubTypeName property for this object.
\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "storageSubTypeName",
"getterDocumentation" : "Returns the value of the StorageSubTypeName property for this object.
\n@return The value of the StorageSubTypeName 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" : "StorageSubTypeName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StorageSubTypeName",
  "uri" : false
},
"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@param storageSubTypeName The new value for the StorageSubTypeName property for this object.
\n@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setStorageSubTypeName",
"setterModel" : {
  "variableDeclarationType" : "String",
"open-source-used-in-msx-sd-wan-service-pack-4-0-0": 10077
"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
},
"StorageTypeLimits" : {
"beanStyleGetterMethodName" : "getStorageTypeLimits",
"beanStyleSetterMethodName" : "setStorageTypeLimits",
"c2jName" : "StorageTypeLimits",
"c2jShape" : "StorageTypeLimitList",
"defaultConsumerFluentSetterDocumentation" : "<p>List of limits that are applicable for given storage type. 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] @return 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.",
"getterDocumentation" : "<p>List of limits that are applicable for given storage type. </p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
@return List of limits that are applicable for given storage type.",
"getterModel" : {
"returnType" : "java.util.List<StorageTypeLimit>",
"description" : ""
"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.\n\nThis is a convenience that creates an instance of the [@link StorageTypeLimit.builder] avoiding the need to create one manually via [@link StorageTypeLimit#builder].\n\nWhen the [@link Consumer] completes, [@link StorageTypeLimit.Builder#build] is called immediately and its result is passed to [@link #member(StorageTypeLimit)].\n\n@param member a consumer that will call methods on [@link StorageTypeLimit.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@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@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.
@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,
"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" : "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><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.

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.

@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.

@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
},
"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getStorageTypeName",
    "beanStyleSetterMethodName" : "setStorageTypeName",
    "c2jName" : "StorageTypeName",
    "c2jShape" : "StorageTypeName",
    "defaultValueFluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object.

This is a convenience that creates an instance of the @link String.Builder avoidin..."
"eventId" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "storageTypeName",
"fluentSetterDocumentation" : "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@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.\n\n@return The value of the StorageTypeName 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" : "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@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setStorageTypeName",
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  "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 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, the result is passed to)

@link #storageSubTypeName(String))

@value

@see #storageSubTypeName(String)
",
"deprecated": 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.

@value

@see #storageSubTypeName(String)
",
"fluentSetterMethodName": "storageSubTypeName",
"getterDocumentation": "Returns a reference to this object so that method calls can be chained together.

@value

@see #storageSubTypeName(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" : "StorageSubTypeName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StorageSubTypeName",
"uri" : false
},
"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" : "List of limits that are applicable for given storage type.\n\nThis is a convenience that creates an instance of the [List<StorageTypeLimit>.Builder] avoiding the need to create one manually via [List<StorageTypeLimit>#builder()].\n\nWhen the [Consumer] completes, [List<StorageTypeLimit>.Builder#build()] is called immediately and its result is passed to [List<StorageTypeLimit>(List<StorageTypeLimit>)]().\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #storageTypeLimits(List<StorageTypeLimit>)",
"deprecated" : false,
"documentation" : "List of limits that are applicable for given storage type.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\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. 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 #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",
    "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" : "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.

@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
} ],
"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",
"mapModel":null,
"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,
  "members" : [
    { "beanStyleGetterMethodName" : "getLimitName",
    "beanStyleSetterMethodName" : "setLimitName",
    "c2jName" : "LimitName",
    "c2jShape" : "LimitName",
    "defaultValueConsumerFluentSetterDocumentation" : "<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 &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;MaximumIoops&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;MinimumIoops&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;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 #limitName(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.&lt;see id="limitName(String)"&gt;
    "deprecated" : false,
    "documentation" : "<p>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;MaximumIoops&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;MinimumIoops&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;"},
    "endpointDiscoveryId" : false,
    "enumType" : null,
"getterDocumentation" : "<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. </ol> </p>
@return Returns a reference to this object so that method calls can be chained together.",

"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. </ol> </p>
@return 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. </ol>"
"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" : "\n<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.
</ol>
\</p>
\n@param limitName 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.
</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" : "\n<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.
</ol>
\</p>
\n@param limitName 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.
</ol>
\n\</p>
\n\</p>
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><li>MaximumIops</li></ol>
"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. 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)}
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.¨ 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",
"complexType": 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" : "LimitValues",
"sensitive" : false,
"setterDocumentation" : "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .

\n\n@\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>
  
  "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

  
  </ol> <p> </p> </code> .</p>
</body>
</html>
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 [@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 limitName(String)].

@see limitName(String)"

"deprecated" : false,
"documentation" : "<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. 

"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. 

"setterDocumentation" : "<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. 

"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. 

"@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" : "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>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 

"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>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 

"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>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 

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. 

<p>
</p>

<input type="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>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 

</ol>

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. 

Maximum 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"
},
"documentation" : "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.

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 `@link Consumer` completes, `List<String>.Builder#build()` is called immediately and its result is passed to `List<String>.Builder.Builder#add()`. A `@link Consumer` is a consumer that will call methods on `List<String>.Builder.Builder`. If you want to return a reference to this object so that method calls can be chained together, you can use `#limitValues(List<String>)`.

"deprecated" : false,
"documentation" : "Values for the `StorageTypeLimit$LimitName`.

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "getLimitValues",
"fluentEnumSetterMethodName" : "setLimitValues",
"c2jName" : "LimitValues",
"c2jShape" : "LimitValueList",
"defaultConsumerFluentSetterDocumentation" : "Values for the `StorageTypeLimit$LimitName`.

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 `@link Consumer` completes, `List<String>.Builder#build()` is called immediately and its result is passed to `List<String>.Builder.Builder#add()`. A `@link Consumer` is a consumer that will call methods on `List<String>.Builder.Builder`. If you want to return a reference to this object so that method calls can be chained together, you can use `#limitValues(List<String>)`.

"deprecated" : false,
"documentation" : "Values for the `StorageTypeLimit$LimitName`.

@endpointDiscoveryId" : false,
Returns a reference to this object so that method calls can be chained together.

"getterDocumentation" : "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .

Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

@return Values for the <code> <a>StorageTypeLimit$LimitName</a> </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 #member(String)].

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.\n\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\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@returns 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$LimitName</a></code>.
@return limitValues Values for the <code><a>StorageTypeLimit$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
}
"nonStreamingMembers" : [
  {
    "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()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #limitName(String)}.
@deprecated
@see #limitName(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. <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> 
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> 
@end_param
@end_limitName

@end_code
@end_code

@end_code
storage type. It can be empty if it is not applicable. <li>MinimumVolumeSize</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. 

\returns 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><a>StorageType</a></code> is ebs, following storage options are applicable <ol> <li>MinimumVolumeSize</li> <li>MaximumVolumeSize</li> <li>MinimumIops</li> </ol> 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>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>MinimumVolumeSize</li> <li>MaximumVolumeSize</li> <li>MinimumIops</li> </ol> Minimum 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>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>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>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>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>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>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>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>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>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>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>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>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>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>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 appli...
"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>MinimumIops</li> Minimum amount of Iops 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. </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>MinimumIops</li> Minimum amount of Iops 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. </ol>

Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.

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.  
<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>MinimumIops</li> Minimum amount of Iops 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. </ol> </p>
\</ol>",  
"xmlNameSpaceUri": null},  
{  
"beanStyleGetterMethodName": "getLimitValues",  
"beanStyleSetterMethodName": "setLimitValues",  
"c2jName": "LimitValues",  
"c2jShape": "LimitValueList",  
"defaultValueConsumerFluentSetterDocumentation": "<p> Values for the <code><a>StorageTypeLimit$LimitName</a></code> . </p>
\</a><a>StorageTypeLimit$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 list completes, @link List<String>.Builder#build() is called immediately and its result is passed to @link #limitValues(List<String>).

When the @link Consumer completes, @link List<String>.Builder#build() is called immediately and its result is passed to @link #limitValues(List<String>)).

@return Returns a reference to this object so that method calls can be chained together.

@see #limitValues(List<String>)

"deprecated" : false,
"documentation" : "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> . </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterMethodName" : "limitValues",
"getterDocumentation" : "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Values for the <code> <a>StorageTypeLimit$LimitName</a> </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",

Open Source Used In MSX SD-WAN Service Pack 4.0.0 10107
"interfaceType" : "java.util.List",
"listMemberModel" : {
  "beanStyleGetterMethodName" : "getMember",
  "beanStyleSetterMethodName" : "setMember",
  "c2jName" : "member",
  "c2jShape" : "LimitValue",
  "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.
@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.\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> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .

Open Source Used In MSX SD-WAN Service Pack 4.0.0 10109
@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
},
"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>"
},
    "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",
    "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>"
},
    "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>"
},
    "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,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
}
,"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>
@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",
  "variableSetterType" : "String"
}
for the Elasticsearch domain to which they are attached.<p>
"simpleType" : "String",
"variableSetterType" : "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 <code>String.Builder</code> avoiding the need to create one manually via <code>String#builder()</code>. When the <code>Consumer</code> completes, <code>builder().build()</code> is called immediately and its result is passed to <code>value(String)</code>. a consumer that will call methods on <code>String.Builder</code>.
@return Returns a reference to this object so that method calls can be chained together.
@param value a consumer that will call methods on <code>String.Builder</code>
@return Returns a reference to this object so that method calls can be chained together.
@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>.
@endpuntThis is a convenience that creates an instance of the <code>String.Builder</code> avoiding the need to create one manually via <code>String#builder()</code>. When the <code>Consumer</code> completes, <code>builder().build()</code> is called immediately and its result is passed to <code>value(String)</code>. a consumer that will call methods on <code>String.Builder</code>.
@return Returns a reference to this object so that method calls can be chained together.
@param value a consumer that will call methods on <code>String.Builder</code>
@return Returns a reference to this object so that method calls can be chained together.
@see #value(String)
@enddoc
"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>.
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()</code>. When the <code>Consumer</code> completes, <code>builder().build()</code> is called immediately and its result is passed to <code>value(String)</code>. a consumer that will call methods on <code>String.Builder</code>.
@return Returns a reference to this object so that method calls can be chained together.
@param value a consumer that will call methods on <code>String.Builder</code>
@return Returns a reference to this object so that method calls can be chained together.
@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>.
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()</code>. When the <code>Consumer</code> completes, <code>builder().build()</code> is called immediately and its result is passed to <code>value(String)</code>. a consumer that will call methods on <code>String.Builder</code>.
@return Returns a reference to this object so that method calls can be chained together.
@param value a consumer that will call methods on <code>String.Builder</code>
@return Returns a reference to this object so that method calls can be chained together.
@see #value(String)
@enddoc
"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",
"simple" : true,
"simpleType" : "String",
"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></p>
@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"
},

"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},

"isBinary" : false,
a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`,

```
"simpleType" : "String",
"variableSetterType" : "String"
}
"xmlNameSpaceUri" : null
}
"membersAsMap" : {
"Key" : {
"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)}`. When the 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",
"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>

```
@<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",
"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>

```
@<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",
"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>

```
@<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,
"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>
@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",
  "variableSetterType" : "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>
", "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"Value" : {
"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></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 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" : "<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>

@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></p>

@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>
@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" : "<p>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;</p>
@param value
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;",
"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 &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;</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"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, the instance is passed to {@link String.Builder#build()} immediately and its result is passed to {@link #key(String)}.<br>

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",
"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>
@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.
@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>
@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
"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>
@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",
  "variableSetterType" : "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>
  "simpleType" : "String",
  "variableSetterType" : "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></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 #value(String)].
@return Returns a reference to this object so that
method calls can be chained together.\n\n@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></p>

"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></p>
@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>

<p>

@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>

<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": "Container for the parameters to the <code><a>UpdateElasticsearchDomain</a></code> operation. Specifies the type and number of instances in the domain cluster."
,"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": "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, {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}\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 name of the Elasticsearch domain that you are updating. </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 updating. </p>
  @param domainName The name of the Elasticsearch domain that you are updating.\n@returns 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 updating. </p>
  @param The name of the Elasticsearch domain that you are updating.\n@returns The name of the Elasticsearch domain that you are updating."
  "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 are updating. </p>\n@returns The name of the Elasticsearch domain that you are updating."
  "setterModel" : {"returnType" : "String", "documentation" : null},
  "uri" : true
}
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" : "The name of the Elasticsearch domain that you are updating.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,

ThreadLocal<com.amazonaws.services.elasticsearch.model.ElasticsearchClusterConfig> theElasticsearchClusterConfig = new
This is a convenience that creates an instance of the ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via

When the [@link ElasticsearchClusterConfig#build()] 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} @return Returns a reference to this object so that method calls can be chained together.

"documentation" : "The type and number of instances to instantiate for the domain cluster.",
"deprecated" : 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.",
"getterDocumentation" : "The type and number of instances to instantiate for the domain cluster."
The type and number of instances to instantiate for the domain cluster.

```
@returns
The type and number of instances to instantiate for the domain cluster.

@getterModel
@return
The type and number of instances to instantiate for the domain cluster.

@http

@setterModel
@setterDocumentation
@return
The type and number of instances to instantiate for the domain cluster.

@setterMethodName
@param
elasticsearchClusterConfig
The type and number of instances to instantiate for the domain cluster.

@setterModel
```
"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)].

@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.
@see #ebsOptions(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" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"xmlnsNameSpaceUri" : 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>
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
"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.

"getterDocumentation": "Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> 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",
"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
},
"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>.
This is a convenience that creates an instance of the <a href="/v1/vpc"
@link VPCOptions.Builder] avoiding the need to create one manually via <a href="/v1/vpc"
@link VPCOptions.Builder#build() is called immediately and its result is passed to <a href="/v1/vpc"
@link VPCOptions.Builder]@return Returns a reference to this object so that method calls can be chained together.<a href="/v1/vpc"
@link 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>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterMethodName" : "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 VPC Endpoints for Amazon Elasticsearch Service Domains</p>
@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 VPC Endpoints for Amazon Elasticsearch Service Domains
@return Returns a reference to this object so that method calls can be chained together.",
"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>.
",
"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>
",
  "simpleType" : "VPCOptions",
  "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 for Kibana</a>.</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 CognitoOptions(CognitoOptions)].\n\n@param cognitoOptions a consumer that will call methods on [@link CognitoOptions.Builder]\n\n@see CognitoOptions(CognitoOptions)",
"deprecated" : false,
"documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : 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>. 

@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",
"setterDocumentation" : "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).

"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" : "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).

"getterMethodName" : "getAdvancedOptions",
"getterModel" : null,
"getterModelName" : "AdvancedOptions",
"getterVariableDeclarationType" : "Map<String,String>",
"getterVariableName" : "advancedOptions",
"getterVariableType" : "Map<String,String>",
"getterSimpleType" : "Map<String,String>",
"getterSetterVariableDeclarationType" : "Map<String,String>",
"getterSetterVariableName" : "advancedOptions",
"getterSetterVariableType" : "Map<String,String>",
"getterSetterSimpleType" : "Map<String,String>",
"getterSetterVariableSetterDeclarationType" : "Map<String,String>",
"getterSetterVariableSetterName" : "advancedOptions",
"getterSetterVariableSetterType" : "Map<String,String>",
"getterSetterSimpleType" : "Map<String,String>",
"getterSetterVariableSetterSetterDeclarationType" : "Map<String,String>",
"getterSetterVariableSetterSetterName" : "advancedOptions",
"getterSetterVariableSetterSetterType" : "Map<String,String>",
"getterSetterSimpleType" : "Map<String,String>",
"deprecated" : false,
"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>
@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."
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "advancedOptions",
"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" target="_blank">Configuration Advanced Options</a> for more information."
<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return 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.",
"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)}. The @param key a consumer that will call methods on
{ @link String.Builder} on 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.
On 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.
On return The value of the Key property for this object.",
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    },
    "http" : {
"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)}. The @param key a consumer that will call methods on
{ @link String.Builder} on 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.
On 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.
On 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" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
"valueLocationName" : "value",
"valueModel" : {
    "beanStyleGetterMethodName" : "getValue",
    "beanStyleSetterMethodName" : "setValue",
    "c2jName" : "value",
    "c2jShape" : "String",
    "defaultValueSetterDocumentation" : "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.

@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"
},
"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.

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 &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> for more information.&lt;/p&gt;,
  "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.&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;/p&gt;&lt;p&gt;When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #accessPolicies(String)}&lt;/p&gt;&lt;p&gt;@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.&lt;/p&gt;&lt;p&gt;@see #accessPolicies(String)",
  "deprecated" : false,
  "documentation" : "&lt;p&gt;IAM access policy as a JSON-formatted string.&lt;/p&gt;",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "accessPolicies",
  "fluentSetterDocumentation" : "&lt;p&gt;IAM access policy as a JSON-formatted string.&lt;/p&gt;&lt;p&gt;@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"
},
"xmlnsSpaceUri" : 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 {[@link Map<String,LogPublishingOption>].Builder} avoiding the need to create one manually via {[@link Map<String,LogPublishingOption>#builder()].\n\nWhen the {[@link Consumer]}.complete() completes, {[@link Map<String,LogPublishingOption>.Builder#build()]} is called immediately and its result is passed to {[@link #logPublishingOptionsAsStrings(Map<String,LogPublishingOption>)]}.\n\n\n\n@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.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n\n\n@returns a reference to this object so that method calls can be chained together.\n@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
"getterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\n\n\n\n@returns a reference to this object so that method calls can be chained together.
"
],
"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.\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 #keyAsString(String)\}\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@see LogType\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
    "getterDocumentation": "Returns the value of the Key property for this object.\n\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 }.

@returns The value of the Key property for this object.

@example 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\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" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },

}"
"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@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.\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@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,
    "messageBodyClass" : "com.amazonaws.services.logs.model.LogPublishingOption",
    "protocolStyle" : "REST",
    "serviceName" : "Logs"
  },
  "modelType" : "LogPublishingOption",
  "name" : "value",
  "nameModel" : {
    "documentation" : null
  },
  "parameterType" : "LogPublishingOption",
  "type" : "LogPublishingOption"
}
"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" : "",
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"propertyNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String, LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Map of &lt;code&gt;LogType&lt;/code&gt; and &lt;code&gt;LogPublishingOption&lt;/code&gt;, each containing options to publish a given type of Elasticsearch log.&lt;/p&gt;\n\n@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" : "<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>"
},
"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>

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 following code will be executed:

```java
@Parameters
public void accessPolicies(String accessPolicies) {
    // method implementation
}
```

This method can be used in a fluent manner by chaining it with other methods, allowing for a more idiomatic approach to setting the IAM access policy.

@endPara

<param name="@param">

AccessPolicies IAM access policy as a JSON-formatted string.
</param>

@see #accessPolicies(String)

return Returns a reference to this object so that method calls can be chained together.

"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>

@see #accessPolicies(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.\n\n@return IAM access policy as a JSON-formatted string.\n\n</p>\n\n\n\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" : "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.\n\n@\n\n\n
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"
}
"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>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
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()}.\n
When the [@link Consumer] completes, [@link Map<String,String>.Builder#build()] is called immediately and its result is passed to [@link Map<String,String>#advancedOptions(Map<String,String>)].\n
@deprecated Returns a reference to this object so that method calls can be chained together.\n
@see #advancedOptions(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>",
"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,
"documentation" : "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>true</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>",
"fluentSetterMethodName" : "advancedOptions"
"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" target="_blank">Configuration Advanced Options</a> for more information. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n</p>\n@return 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."

"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)}.

@<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.\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.

@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",
"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()}. 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" : "",
"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>
@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.
",
"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>.\nThis 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 a consumer that will call methods on a CognitoOptions a consumer that will call methods on.<\n\n@see #cognitoOptions(CognitoOptions)\n@return Returns a reference to this object so that method calls can be chained together.\n@see #cognitoOptions(CognitoOptions)\n"",
  "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>.\n@end\n\n@see #cognitoOptions(CognitoOptions)\n@see #cognitoOptions(CognitoOptions)\n"",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : 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>.\n</p>\n@see #cognitoOptions(CognitoOptions)\n@see #cognitoOptions(CognitoOptions)\n="",
  "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>.\n@end\n\n@see #cognitoOptions(CognitoOptions)\n@see #cognitoOptions(CognitoOptions)\n="",
  "getterMethod" : {
    "returnType" : "CognitoOptions",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
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).

```json
"setterDocumentation": "<p>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).</p>\n
```


```json
"setterMethodName": "setCognitoOptions",
"setterModel": {
"variableDeclarationType": "CognitoOptions",
"variableName": "cognitoOptions",
"variableType": "CognitoOptions",
"documentation": null,
"simpleType": "CognitoOptions",
"variableSetterType": "CognitoOptions"
}
```


```json
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "CognitoOptions",
"variableName": "cognitoOptions",
"variableType": "CognitoOptions",
"documentation": null,
"documentation": "<p>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).</p>

```

```json
"simpleType": "CognitoOptions",
"variableSetterType": "CognitoOptions"
}```

```json
}
```
"xmlNameSpaceUri" : null,
},
"DomainName" : {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating. </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 that you are updating. </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 updating. </p>
@param domainName The name of the Elasticsearch domain that you are updating.
@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 updating. </p>
"@return The name of the Elasticsearch domain that you are updating.",
  "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 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
},
"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>
  
  @param ebsOptions a consumer that will call methods on { @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)}.
  
  @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" : "Specify the type and size of the EBS volume that you want to use.\n@return Specify the type and size of the EBS volume that you want to use.\n@return Specify the type and size of the EBS volume that you want to use.",
"fluentSetterMethodName" : "ebsOptions",
"getterDocumentation" : "Specify the type and size of the EBS volume that you want to use.\n@return Specify the type and size of the EBS volume that you want to use.\n@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" : "Specify the type and size of the EBS volume that you want to use.\n@return Specify the type and size of the EBS volume that you want to use.\n@return Specify the type and size of the EBS volume that you want to use.",
"setterMethodName" : "setEbsOptions",
"setterModel" : {
   "variableDeclarationType" : "EBSOptions",
   "variableName" : "ebsOptions",
   "variableType" : "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
},
"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 \[@link #elasticsearchClusterConfig(ElasticsearchClusterConfig)\].

\@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" : "<p>The type and number of instances to instantiate for the domain cluster.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "getElasticsearchClusterConfig",
"fluentEnumSetterMethodName" : "setElasticsearchClusterConfig",
"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>&nbsp;<p>@param elasticsearchClusterConfig The type and number of instances to instantiate for the domain cluster.</p>.
"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""}
"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 [%link Map\<String,\LogPublishingOption\>\.Builder] avoiding the need to create one manually via [%link Map\<String,\LogPublishingOption\>\#builder()]\.\n\nThe [%link Consumer\} completes, [%link Map\<String,\LogPublishingOption\>\.Builder\#build()] is called immediately and its result is passed to [%link Map\<String,\LogPublishingOptionsAsStrings\<\Map\<String,\LogPublishingOption\>>\}\.\n\n@\param logPublishingOptions a consumer that will call methods on [%link Map\<String,\LogPublishingOption\>\.Builder\}\.\n\n@\return \Returns a reference to this object so that method calls can be chained together.\n\n@see \#logPublishingOptionsAsStrings\<\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",
"fluentSetterMethodName" : "logPublishingOptionsWithStrings",
"fluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\</p>\"

"getterDocumentation" : "<p>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",
    "defaultValueDocumentation" : "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)}. @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.@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.\n\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",
"defaultValueConsumerFluentSetterDocumentation" : "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 [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 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.

@returns The value of the Value property for this object.
@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,
"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.\n\n@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\n"
"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 \(<code>LogType</code> and <code>LogPublishingOption</code>, each
containing options to publish a given type of Elasticsearch log.\)</p>\",  
"simpleType" : "Map<String,LogPublishingOption>",  
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"  
},  
"xmlNameSpaceUri" : null  
},  
"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. \(<p>\)This is a convenience that creates an instance of the \(<@link
SnapshotOptions.Builder>\) avoiding the need to create one manually via \(<@link
SnapshotOptions#builder()>\).\)<br>When the \(<@link Consumer>\) completes, \(<@link
SnapshotOptions.Builder#build()>\) is called immediately and its result is passed to \(<@link
#snapshotOptions(SnapshotOptions)>\) \(<@link
@param snapshotOptions 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 #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,  
"eventHeader" : 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. \(<p>\)\"
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>@return Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> 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 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 <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)}.

When the consumer will call methods on {@link VPCOptions.Builder} it returns a reference to this object so that method calls can be chained together.

"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>
"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></p>
"descriptor" : null,
"deprecated" : false,
"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></p>"
Creating a VPC 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](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) in VPC Endpoints for Amazon Elasticsearch Service Domains:

```
@returns 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",
    "sensitive": false,
    "setterDocumentation": "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:

    @param vpcOptions 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:

    "setterMethodName": "setVpcOptions",
    "setterModel": {
        "variableDeclarationType": "VPCOptions",
        "variableName": "vpcOptions",
        "variableType": "VPCOptions",
    }
```

Creating a VPC in VPC Endpoints for Amazon Elasticsearch Service Domains:
"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-creating-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"
},
"xmlNameSpaceUri": null
],
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "<p>The name of the Elasticsearch domain that you are updating. This is a convenience that creates an instance of the <a href="#DomainName">String.Builder</a> avoiding the need to create one manually via <a href="#DomainName">String.Builder</a>\nWhen the <a href="#DomainName">Consumer</a> completes, <a href="#DomainName">String.Builder#build()</a> is called immediately and its result is passed to <a href="#DomainName">String.Builder</a>.\n@see #domainName(String)\n@param domainName a consumer that will call methods on <a href="#DomainName">String.Builder</a>\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 Elasticsearch domain that you are updating. </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 updating.\n@see #domainName(String)\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 updating. </p>",
    "getterModel": {
      "returnType": "String",
      "getterSetterType": "VPCOptions"
    }
  }
],
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "<p>The name of the Elasticsearch domain that you are updating. This is a convenience that creates an instance of the <a href="#DomainName">String.Builder</a> avoiding the need to create one manually via <a href="#DomainName">String.Builder</a>\nWhen the <a href="#DomainName">Consumer</a> completes, <a href="#DomainName">String.Builder#build()</a> is called immediately and its result is passed to <a href="#DomainName">String.Builder</a>.\n@see #domainName(String)\n@param domainName a consumer that will call methods on <a href="#DomainName">String.Builder</a>\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 Elasticsearch domain that you are updating. </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 updating.\n@see #domainName(String)\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 updating. </p>",
    "getterModel": {
      "returnType": "String",
      "getterSetterType": "VPCOptions"
    }
  }
],
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "<p>The name of the Elasticsearch domain that you are updating. This is a convenience that creates an instance of the <a href="#DomainName">String.Builder</a> avoiding the need to create one manually via <a href="#DomainName">String.Builder</a>\nWhen the <a href="#DomainName">Consumer</a> completes, <a href="#DomainName">String.Builder#build()</a> is called immediately and its result is passed to <a href="#DomainName">String.Builder</a>.\n@see #domainName(String)\n@param domainName a consumer that will call methods on <a href="#DomainName">String.Builder</a>\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 Elasticsearch domain that you are updating. </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 updating.\n@see #domainName(String)\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 updating. </p>",
    "getterModel": {
      "returnType": "String",
      "getterSetterType": "VPCOptions"
"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 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"
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The type and number of instances to instantiate for the
domain cluster.&lt;/p&gt;",
"documentation" : "&lt;p&gt;The type and number of instances to instantiate for the domain
cluster.&lt;/p&gt;",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterDocumentation" : "&lt;p&gt;The type and number of instances to instantiate for the domain
cluster.&lt;/p&gt;",
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getterDocumentation" : "&lt;p&gt;The type and number of instances to instantiate for the domain
cluster.&lt;/p&gt;",
"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"}
The type and number of instances to instantiate for the domain cluster.

@see \#ebsOptions(EBSOptions)
"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.
@return 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" : "Specify the type and size of the EBS volume that you want to use. 
<br/>
<code>EBSOptions</code> has the following properties:
<br/>
<br/>
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptions",
"defaultConsumerFluentSetterDocumentation" : "Option to set the time, in UTC format, for the daily automated snapshot. Default value is 0 hours. This is a convenience that creates an instance of the <code>SnapshotOptions</code> avoiding the need to create one manually via <code>SnapshotOptions#builder()</code>. When the [Consumer] completes, the <code>SnapshotOptions#build()</code> is called immediately and its result is passed to the <code>SnapshotOptions</code>.<br/>
<br/>
"deprecated" : false,
"documentation" : "Option to set the time, in UTC format, for the daily automated snapshot. Default value is 0 hours.
<br/>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventId" : 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 0 hours.
<br/>
<br/>
"getterDocumentation" : "Option to set the time, in UTC format, for the daily automated snapshot. Default value is 0 hours.
<br/>
snapshot. Default value is <code>0</code> 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**: "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": "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
},
"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 \{@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\}. A consumer that will call methods on \{@link VPCOptions.Builder\}\n\n@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 \(<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\)."\</p>",
"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 \(<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\).\n\n@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 \(<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\).\n\n@see #vpcOptions(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 \(<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\).\n\n@see #vpcOptions(VPCOptions)",
"getterSetterMethodNames": "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 \(<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\).\n\n@see #vpcOptions(VPCOptions)",
"getterSetterMethodNames": "vpcOptions"}
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) in [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide).

### setterDocumentation

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) in [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide).

```json

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,
mappingType: "SDK_POJO",
name: "VPCOptions",
sensitive: false,
setterDocumentation: "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) in [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide).

setterMethodName: "setVpcOptions",
setterModel: {
  variableDeclarationType: "VPCOptions",
  variableName: "vpcOptions",
  variableType: "VPCOptions",
  documentation: null,
  simpleType: "VPCOptions",
  variableSetterType: "VPCOptions"
},
simple: false,
```
"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 VPC Endpoints for Amazon Elasticsearch Service Domains in VPC Endpoints for Amazon Elasticsearch Service Domains</i></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>.

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)}.

When the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to {@link CognitoOptions(CognitoOptions)}.

@see #cognitoOptions(CognitoOptions)
@deprecated" : false,
"documentation" : "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>.

@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 <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)}.

When the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to {@link CognitoOptions(CognitoOptions)}.

@see #cognitoOptions(CognitoOptions)
@deprecated" : false,
"documentation" : "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>.

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)}.

When the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to {@link CognitoOptions(CognitoOptions)}.

@see #cognitoOptions(CognitoOptions)"},
"getterDocumentation" : "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 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,
"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>.  

@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"
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 `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 `#advancedOptions(Map<String,String>)`.

```
public void advancedOptions(Consumer<Map<String,String>> advancedOptions)
```

**Default Consumer Fluent Setter 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 [Configuration Advanced Options](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).

```
public void advancedOptions(Map<String,String> advancedOptions)
```

**Deprecated:**

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](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).

```
public void advancedOptions(Consumer<Map<String,String>> advancedOptions)
```

**Endpoint Discovery Id:**

```
public void endpointDiscoveryId(String endpointDiscoveryId)
```

**Enum Type:**

```
public void enumType(String enumType)
```

**Event Header:**

```
public void eventHeader(String eventHeader)
```

**Event Payload:**

```
public void eventPayload(String eventPayload)
```

**Fluent Enum Getter Method Name:**

```
public String fluentEnumGetterMethodName()
```

**Fluent Enum Setter Method Name:**

```
public void fluentEnumSetterMethodName(String fluentEnumSetterMethodName)
```

**Fluent Setter Method Name:**

```
public String fluentSetterMethodName()
```

**Fluent Setter 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 [Configuration Advanced Options](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).

```
public void fluentSetterDocumentation(String fluentSetterDocumentation)
```
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.

```java
@Return
Returns a reference to this object so that method calls can be chained together.
```

```java
"getterMethodName" : "advancedOptions",
"documentation" : "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.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

```

```java
@return 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.
```

```java
"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)",
"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()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to
{@link #value(String)}. 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" : "",
  "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>",
"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>"
}
Advanced Options for more information.

```
"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)}.
@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" : "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. 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)"
",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "IAM access policy as a JSON-formatted string.
@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,
"statusType" : "Map<String,String>
",
"variableSetterType" : "java.util.Map<String,String>
"
```
"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"
},
"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>)}.

@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.\n</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@return 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</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.\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#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\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#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 LogType\n\n@returns 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.\n\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@returns The value of the Key property for this object.\n\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@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"
},
"xmlnsNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "LogPublishingOption",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.\n
This is a convenience that creates an instance of the { @link LogPublishingOption.Builder} avoiding the need to create one manually via { @link LogPublishingOption#builder}().\n
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 { @link LogPublishingOption.Builder}\n@return Returns a reference to this object so that method calls can be chained
together.

@see LogPublishingOption",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@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.

@returns 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.

@returns Returns a reference to this object so that method calls can be chained together."

@returns The value of the Value property for this object."
"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" : null,
    "simpleType" : "java.util.Map<String,LogPublishingOption>",
    "variableSetterType" : "java.util.Map<String,LogPublishingOption>",
},
"marshallerType" : "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.",
"setterMethodName" : "setLogPublishingOptionsWithStrings",
"simpleType" : "Map<String,LogPublishingOption>",
"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 <code>UpdateElasticsearchDomain</code> 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,
"marshalller" : 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().\nWhen the Consumer completes, ElasticsearchDomainConfig.Builder#build() is called immediately and its result is passed to ElasticsearchDomainConfig(ElasticsearchDomainConfig).\n\n@param domainConfig a consumer that will call methods on ElasticsearchDomainConfig.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see ElasticsearchDomainConfigBuilder",

"deprecated" : false,
"documentation" : "The status of the updated Elasticsearch domain.\n@link ElasticsearchDomainConfig.Builder\nWhen the Consumer completes, ElasticsearchDomainConfig.Builder#build() is called immediately and its result is passed to ElasticsearchDomainConfig(ElasticsearchDomainConfig).\n\n@param domainConfig a consumer that will call methods on ElasticsearchDomainConfig.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see ElasticsearchDomainConfigBuilder",

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainConfig",
"fluentSetterDocumentation" : "The status of the updated Elasticsearch domain.\n@link ElasticsearchDomainConfig.Builder\nWhen the Consumer completes, ElasticsearchDomainConfig.Builder#build() is called immediately and its result is passed to ElasticsearchDomainConfig(ElasticsearchDomainConfig).\n\n@param domainConfig a consumer that will call methods on ElasticsearchDomainConfig.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see ElasticsearchDomainConfigBuilder",

"fluentSetterDocumentation" : "domainConfig",
"getterDocumentation" : "The status of the updated Elasticsearch domain.\n@link ElasticsearchDomainConfig.Builder\nWhen the Consumer completes, ElasticsearchDomainConfig.Builder#build() is called immediately and its result is passed to ElasticsearchDomainConfig(ElasticsearchDomainConfig).\n\n@param domainConfig a consumer that will call methods on ElasticsearchDomainConfig.Builder\n@return The status of the updated Elasticsearch domain.\n@see ElasticsearchDomainConfigBuilder",

"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 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
},
"membersAsMap" : {
  "DomainConfig" : {
    "beanStyleGetterMethodName" : "getDomainConfig",
    "beanStyleSetterMethodName" : "setDomainConfig",
    "c2jName" : "DomainConfig",
    "c2jShape" : "ElasticsearchDomainConfig",
    "defaultConsumerFluentSetterDocumentation" : "<p>The status of the updated Elasticsearch domain.</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)} a consumer that will call methods on { @link ElasticsearchDomainConfig.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #domainConfig(ElasticsearchDomainConfig)"
,"deprecated" : false,
"documentation" : "<p>The status of the updated Elasticsearch domain. </p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainConfig",
"fluentSetterDocumentation" : "\n\nThe status of the updated Elasticsearch domain.\n\n@param domainConfig The status of the updated Elasticsearch domain.\n\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "domainConfig",
"getterDocumentation" : "\n\nThe status of the updated Elasticsearch domain.\n\n@return The status of the updated Elasticsearch domain.\n",
"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" : "\n\nThe status of the updated Elasticsearch domain.\n",
"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,
"
"
"nonStreamingMembers" : [ {

"beanStyleGetterMethodName" : "getDomainConfig",
"beanStyleSetterMethodName" : "setDomainConfig",
"c2jName" : "DomainConfig",
"c2jShape" : "ElasticsearchDomainConfig",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of the updated Elasticsearch domain. 
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)}. 
@param domainConfig a consumer that will call
methods on {@link ElasticsearchDomainConfig.Builder} @return Returns a reference to this object so that method
calls can be chained together.
@see #domainConfig(ElasticsearchDomainConfig)"
,
"deprecated" : false,
"documentation" : "<p>The status of the updated Elasticsearch domain. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainConfig",
"fluentSetterDocumentation" : "<p>The status of the updated Elasticsearch domain. 
</p>\n\n@param domainConfig The status of the updated Elasticsearch domain.\n@return Returns a reference to this object so that method
calls can be chained together."
,
"fluentSetterMethodName" : "domainConfig",
"getterDocumentation" : "<p>The status of the updated Elasticsearch domain. 
</p>\n\n@return 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" : "&lt;p&gt;The status of the updated Elasticsearch domain. &lt;/p&gt;&lt;p&gt;\n@var domainConfig\nThe status of the updated Elasticsearch domain.\n"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" : "&lt;p&gt;The status of the updated Elasticsearch domain. &lt;/p&gt;",
  "simpleType" : "ElasticsearchDomainConfig",
  "variableSetterType" : "ElasticsearchDomainConfig"
},
"xmlNameSpaceUri" : null
}];
"requestSignerAware" : false,
"requestSignerClassFqcn" : 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" : "Container for request parameters to <code> <a>UpgradeElasticsearchDomain</a> <p> operation. </p>
<code> </code>",
  "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
  }
}
"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, `domainName(String)` is called immediately and its result is passed to `domainName(String)`.

@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. 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)"
"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@param domainName The new value for the DomainName property for this object.\n"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" : "<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@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" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\n"endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "targetVersion",
"fluentSetterDocumentation" : "<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.
@return

Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "targetVersion",
"getterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain
to.</p>@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
},
  "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. \n</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()\}.\n\nWhen 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\}\n\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. \n</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()\}.\n\nWhen 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\}\n\n@see #performCheckOnly(Boolean)",
  "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. \n</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()\}.\n\nWhen 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\}\n\n@see #performCheckOnly(Boolean)",
  "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. \n</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()\}.\n\nWhen 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\}\n\n@see #performCheckOnly(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" : "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" : "\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@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
}
"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 StringBuilder#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 so that method calls can be chained together.

@see #domainName(String)"
  },
  "getterDocumentation" : "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.

@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
},
"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>

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)].

@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> 
@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.
@return 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> 
@return 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",
   "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>\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. \</p>\n",
    "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.\</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()].\</p>\nWhen the[@link Consumer] completes,[@link String.Builder#build()] is called immediately and its result is passed to[@link #targetVersion(String)].\</p>\n@\param targetVersion a consumer that will call methods on[@link String.Builder]\</p>\n@\return Returns a reference to this object so that method calls can be chained together.\</p>\n@\see #targetVersion(String)",
    "deprecated" : false,
    "documentation" : "The version of Elasticsearch that you intend to upgrade the domain to.\</p>\n",
    "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.\</p>\n@\param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.\</p>\n@\return Returns a reference to this object so that method calls can be chained together.\","}
"fluentSetterMethodName": "targetVersion",
"getterDocumentation": "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
@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",
"simple": 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,
 "complexType": "String",
 "variableSetterType": "String"
 },
"simple": true,
"timestampFormat": null,
"variable": { 
 "variableDeclarationType": "String", 
 "variableName": "targetVersion"}
"variableName" : "targetVersion",
"variableType" : "String",
"documentation" : "The version of Elasticsearch that you intend to upgrade the domain to.",
"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)}].
@deprecated
@returns Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
"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.
@returns 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.
@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.

@par
domName
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" : "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#build()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #targetVersion(String)\}.

@par
domName
The new value for the TargetVersion property for this object.",
"getterMethodName" : "getTargetVersion",
"getterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "targetVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "targetVersion",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
targetVersion a consumer that will call methods on { @link String.Builder}.
@see #targetVersion(String)

"deprecated" : false,
"documentation" : "<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" : "<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.
@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "targetVersion",
"getterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
@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.
"setterModel" : {
"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,
to.\n
@\param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.

getterMethodName" : "getTargetVersion",
"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" : "The version of Elasticsearch that you intend to upgrade the domain to.\n  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. \n  This will not actually perform the Upgrade.\n  \n  endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "performCheckOnly",
  "fluentSetterDocumentation" : "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  endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "performCheckOnly",
  "fluentSetterDocumentation" : "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  endpointDiscoveryId" : false,
"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>

@return 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",
  "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>

@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" : [ "DomainName", "TargetVersion" ],
"shapeName" : "UpgradeElasticsearchDomainRequest",
"simpleMethod" : false,
"unmarshaller" : false,
"variable" : {
  "variableDeclarationType" : "UpgradeElasticsearchDomainRequest",
  "variableName" : "upgradeElasticsearchDomainRequest",
  "variableType" : "UpgradeElasticsearchDomainRequest",
  "documentation" : null,
  "simpleType" : "UpgradeElasticsearchDomainRequest",
  "variableSetterType" : "UpgradeElasticsearchDomainRequest"
},
"wrapper" : false
},
"UpgradeElasticsearchDomainResponse" : {
  "c2jName" : "UpgradeElasticsearchDomainResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : 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" : false,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 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@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\nThe new value for the DomainName property for this object.\n\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,
        "flat" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "DomainName",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "DomainName",
        "uri" : false
The new value for the DomainName property for this object.

@\param domainName

The version of Elasticsearch that you intend to upgrade the domain to.

@\see #targetVersion(String)
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "targetVersion",
"fluentSetterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.
@param targetVersion 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.",
"fluentSetterMethodName" : "targetVersion",
"getterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.
@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" : "The version of Elasticsearch that you intend to upgrade the domain to.
@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" : "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" : "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)].

@see #performCheckOnly(Boolean)"
"deprecated" : false,
"documentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. 

endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "performCheckOnly",
"fluentSetterDocumentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

@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.

@return Returns a reference to this object so that method calls can be chained together.

endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
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"endpointDiscoveryId" : false,
"endpointDiscoveryId" : false,
This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

```
@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.
```

```
setPerformCheckOnly
```

```
Boolean
```

This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

```
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.

```
performCheckOnly
```

```
Boolean
```
"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",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
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.
"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,
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>

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)].

@return 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>
@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.
@return 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. 
@return 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",
"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. 

@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. 

@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.",
  "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.

@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
@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.

@returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "targetVersion",
"getterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>

@returns The version of Elasticsearch that you intend to upgrade the domain to.

"getterModel" : {
"returnType" : "String",
"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" : "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,
"setterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>

@returns 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"
},
"timestampFormat" : null,
"variable": {
    "variableDeclarationType": "String",
    "variableName": "targetVersion",
    "variableType": "String",
    "documentation": "The version of Elasticsearch that you intend to upgrade the domain to.",
    "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 \{@link String.Builder\} avoiding the need to create one manually via \{@link String.Builder\}.\nWhen the \{@link Consumer\} completes, \{@link String.Builder\} 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@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@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,
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"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
},
"beanStyleGetterMethodName": "getTargetVersion",
"beanStyleSetterMethodName": "setTargetVersion",
"c2jName": "TargetVersion",
"c2jShape": "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation": "<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()}`. When the `{@link Consumer}` completes, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #targetVersion(String)}`.

@returns a reference to this object so that method calls can be chained together.

@see #targetVersion(String)

"deprecated" : false,
"documentation" : "<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" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>

@returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "targetVersion",
"getterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>

@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"
"setterDocumentation": "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": "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": "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </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 #performCheckOnly(Boolean)\}.\n\n@param performCheckOnly 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\n@see #performCheckOnly(Boolean)",
"deprecated": false,
"documentation": "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": "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@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>\n@return Returns a reference to this object so that method calls can be chained together.\n"fluentsetMethodname" : "performCheckOnly",
"getterDocumentation" : "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@<p>\n@return This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.\n"getterModel" : {\n  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {\n  "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@<p>\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"setterMethodname" : "setPerformCheckOnly",
"setterModel" : {\n  "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."
},
"simpleType" : "Boolean",
"variableSetterType" : "Boolean",
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "UpgradeElasticsearchDomainResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"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.
"
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshallers" : [
  {
    "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()].
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 [ @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>",
  "endpointDiscoveryId" : false,
  "eventType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "upgradeName",
  "fluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
@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" : "<p>A string that describes the update briefly</p>
@return A string that describes the update briefly",

- @getterModel" : {
  "returnType" : "String",
  "documentation" : null
}
  
  "http" : {
    "addtionalMarshallingPath" : null,
    "addtionalUnmarshallingPath" : 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" : "<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 { @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 #startTimestamp(Instant)}.\n@param startTimestamp 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
#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>
  @param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.
  @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.</p>
  @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.</p>\n@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)}.\n@see #upgradeStatus(String)
\n@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>",
  "endpointDiscoveryId" : false,
  "enumType" : "UpgradeStatus",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "upgradeStatus",
  "fluentEnumSetterMethodName" : "upgradeStatus",
  "fluentGetterMethodName" : "upgradeStatusAsString",
  "deprecated" : false,
  "documentation" : "<p>\n@see #upgradeStatus(String)</p>",
  "endpointDiscoveryId" : false,
  "enumType" : "UpgradeStatus",
  "eventHeader" : false,
  "eventPayload" : false,
"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> @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> @return Returns a reference to this object so that method calls can be chained together.

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}`.
</p>

@return 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",

"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>

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}`.
</p>

@return 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",

"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",
 "敏感" : 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> @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> @return Returns a reference to this object so that method calls can be chained together.

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}`.
</p>

@return 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
],
"beanStyleGetterMethodName" : "getStepsList",
"beanStyleSetterMethodName" : "setStepsList",
"c2jName" : "StepsList",
"c2jShape" : "UpgradeStepsList",
"defaultConsumerFluentSetterDocumentation" : "<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>

This is a convenience that creates an instance of the [ @link List<UpgradeStepItem>.Builder] avoiding the need to create one manually via [ @link List<UpgradeStepItem>#builder()]. When the [ @link Consumer] completes, [ @link List<UpgradeStepItem>.Builder#build()] is called immediately and its result is passed to [ @link #stepsList(List<UpgradeStepItem>)].

@see #stepsList(List<UpgradeStepItem>)

deprecated" : false,
"documentation" : null,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "stepsList",
"fluentSetterDocumentation" : "<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>

@endpointDiscoveryId" : null,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "stepsList",
"fluentSetterDocumentation" : "<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>

@see #stepsList(List<UpgradeStepItem>)"};

"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
method calls can be chained together.

"fluentSetterMethodName" : "stepsList",
"getterDocumentation" : "<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. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException. </p>

@returns 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.

"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,
  "marshallingLocation" : "PAYLOAD",
  "marshallingLocationName" : "StepsList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallingLocationName" : "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 [UpgradeStepItem.Builder] avoiding the need to create one manually via [UpgradeStepItem#builder()]. When the [Consumer] completes, [UpgradeStepItem.Builder#build()] is called immediately and its result is passed to [UpgradeStepItem].

@returns Returns a reference to this object so that method calls can be chained together.
@see #member(UpgradeStepItem)",
  "deprecated" : false,
  "documentation" : ""
}
"endpointDiscoveryId" : false,
"enumType" : null,
"evenHeader" : 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" : "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.

@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" : "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 &lt;code&gt;&lt;a&gt;UpgradeStepItem&lt;/a&gt; &lt;/code&gt; s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. &lt;/p&gt;&lt;param stepsList A list of &lt;code&gt;&lt;a&gt;UpgradeStepItem&lt;/a&gt; &lt;/code&gt; s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.&lt;/param&gt;
"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" : "A list of <code> UpgradeStepItem </code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.",
"simpleType" : "List<UpgradeStepItem>",
"variableSetterType" : "java.util.Collection<UpgradeStepItem>"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
"StartTimestamp" : {
"beanStyleGetterMethodName" : "getStartTimestamp",
"beanStyleSetterMethodName" : "setStartTimestamp",
"c2jName" : "StartTimestamp",
"c2jShape" : "StartTimestamp",
"defaultConsumerFluentSetterDocumentation" : "UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format. 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 #startTimestamp(Instant)). When the @param startTimestamp a consumer that will call methods on Instant.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see #startTimestamp(Instant)",
"deprecated" : false,
"documentation" : "UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "startTimestamp",
"fluentSetterDocumentation" : "UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.\n@param startTimestamp 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",
"fluentSetterDocumentation" : "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.",
"getterDocumentation" : "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.</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
"StepsList" : {
  "beanStyleGetterMethodName" : "getStepsList",
  "beanStyleSetterMethodName" : "setStepsList",
  "c2jName" : "StepsList",
  "c2jShape" : "UpgradeStepsList",
  "defaultConsumerFluentSetterDocumentation" : "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. 
  When the <code>&lt;a&gt;Consumer&lt;/a&gt;</code> completes, <code>&lt;a&gt;stepsList&lt;List&lt;UpgradeStepItem&gt;&gt;.&lt;@param stepsList a consumer that will call methods on&lt;a&gt;List&lt;UpgradeStepItem&gt;&lt;/a&gt;.&lt;/param&gt;&lt;/a&gt;return Returns a reference to this object so that method calls can be chained together.&lt;param&gt;refstepsList(List&lt;UpgradeStepItem&gt;)&lt;/param&gt;&lt;/a&gt;\n
  @see #stepsList(List&lt;UpgradeStepItem&gt;)
  @return Returns a reference to this object so that method calls can be chained together.
</p>",
  "deprecated" : false,
  "documentation" : "A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> s representing 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 <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

  "getterDocumentation" : "A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

  "getterModel" : {
    "returnType" : "java.util.List&lt;UpgradeStepItem&gt;",
    "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",
    "defaultValue" : "null",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the \n[@link UpgradeStepItem.Builder] avoiding the need to create one manually via \n[@link UpgradeStepItem#builder()].\nWhen the \n[@link Consumer] completes,\n[@link UpgradeStepItem.Builder#build()] is called immediately and its result is passed to \n[@link #member(UpgradeStepItem)].\n@param member a consumer that will call methods on \n[@link UpgradeStepItem.Builder]\n@return Returns a reference to this object so that method calls can be chained\ntogether.\n@see #member(UpgradeStepItem)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "getMember",
  "fluentEnumSetterMethodName" : "setMember",
  "fluentGetterMethodName" : "member",
  "fluentSetterMethodName" : "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.",
  "fluentSetterMethodSignature" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object.",
  "getterMethodSignature" : "\n@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",
"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" : "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>
@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
},
"UpgradeName" : {
 "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#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 { @link String.Builder }\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #upgradeName(String)"

"deprecated" : false,
"documentation" : "<p>A string that describes the update briefly</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeName",
"fluentSetterDocumentation" : "<p>A string that describes the update briefly</p>\n@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@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>\n@param upgradeName A string that describes the update briefly"

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"
},
"xmlNameSpaceUri" : null
},
"UpgradeStatus" : {
"beanStyleGetterMethodName" : "getUpgradeStatusAsString",
"beanStyleSetterMethodName" : "setUpgradeStatus",
"c2jName" : "UpgradeStatus",
"c2jShape" : "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation" : "\nThe 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()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link upgradeStatusAsString(String)}.\n\n@param upgradeStatus 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 #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>",
"endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "\nThe 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>\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #upgradeStatus(String)",
"deprecated" : false,

@see UpgradeStatus

@return Returns a reference to this object so that method calls can be chained together.

@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>

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].</p>

@return 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>

"getterModel" : {

"returnType" : "String",

"documentation" : null

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : 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>

@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>

"setterMethodName" : "setUpgradeStatus",

"setterModel" : {

"variableDeclarationType" : "String",

"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>

"getterModel" : {

"returnType" : "String",

"documentation" : null

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : 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>

"setterMethodName" : "setUpgradeStatus",

"setterModel" : {

"variableDeclarationType" : "String",

"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>

"getterModel" : {

"returnType" : "String",

"documentation" : null

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,
"variableName" : "upgradeStatus",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "upgradeStatus",
"variableType" : "String",
"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>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getUpgradeName",
  "beanStyleSetterMethodName" : "setUpgradeName",
  "c2jName" : "UpgradeName",
  "c2jShape" : "UpgradeName",
  "defaultConsumerFluentSetterDocumentation" : "<p>A string that describes the update briefly</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 #upgradeName(String)}.<br>
  @param upgradeName 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 #upgradeName(String)",
  "deprecated" : false,
  "documentation" : "<p>A string that describes the update briefly</p>",
  "enumType" : null,
  "endpointDiscoveryId" : false,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "upgradeName",
  "fluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
  A string that describes the update briefly<br>
  @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>
  A string that describes the update briefly<br>
  @return A string that describes the update briefly",
  "getterModel" : {
    "returnType" : "String"
A string that describes the update briefly

@param upgradeName A string that describes the update briefly

setterMethodName: "setUpgradeName",
setModel: {
  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"
"defaultConsumerFluentSetterDocumentation": "UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format. 
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 #startTimestamp(Instant)}.

@return Returns a reference to this object so that method calls can be chained together.

@see #startTimestamp(Instant)"
.option deprecated" : false,
"documentation": "UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format."
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "startTimestamp",
"fluentSetterDocumentation": "UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.
@param startTimestamp UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName": "startTimestamp",
"getterDocumentation": "UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.

"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 \"yyy-MM-ddTHH:mm:ssZ\" format.</p><p>@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyy-MM-ddTHH:mm:ssZ\" format.</p>",
"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 \"yyy-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: <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> <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#build()}.

"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 \"yyy-MM-ddTHH:mm:ssZ\" format.</p><p>@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyy-MM-ddTHH:mm:ssZ\" format.</p>",
"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 \"yyy-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: <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> <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#build()}.

"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 \"yyy-MM-ddTHH:mm:ssZ\" format.</p><p>@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyy-MM-ddTHH:mm:ssZ\" format.</p>",
"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 \"yyy-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: <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> <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#build()}.

"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 \"yyy-MM-ddTHH:mm:ssZ\" format.</p><p>@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyy-MM-ddTHH:mm:ssZ\" format.</p>",
"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 \"yyy-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: <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> <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#build()}.

"statusCode" : false,
"unmarshallLocationName" : "StartTimestamp",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
#upgradeStatusAsString(String)\n\n@<br>param upgradeStatus a consumer that will call methods on { @link<br>String.Builder} \n@return Returns a reference to this object so that method calls can be chained together.\n@see #upgradeStatus(String)

"deprecated" : false,<br>"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>
"eventType" : "UpgradeStatus",
"eventHeader" : false,<br>"eventPayload" : false,<br>"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\n@return Returns a reference to this object so that method calls can be chained together.\n@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>
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}.\n@return 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>
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,<br>"additionalUnmarshallingPath" : null,<br>"flattened" : false,<br>"greedy" : false,<br>"header" : false,<br>"isPayload" : false,<br>"isStreaming" : false,<br>"location" : null,<br>"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStatus",
"queryString" : false,<br>"statusCode" : false,<br>"unmarshalLocationName" : "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: 
@param upgradeStatus The overall status of the update. The status can take one of the following values: 
@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"
},
"xmlnsNamespaceUri" : null
},
"beanStyleGetterMethodName" : "getStepsList",
"beanStyleSetterMethodName" : "setStepsList",
"c2jName" : "StepsList",
"c2jShape" : "UpgradeStepsList",
"defaultConsumerFluentSetterDocumentation" : "<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><p>This is a convenience that creates an instance of the {
@link List<UpgradeStepItem>.Builder} avoiding the need to create one manually via {
@link List<UpgradeStepItem>#builder()}. When the {
@link Consumer} completes, {
@link List<UpgradeStepItem>.Builder#build()} is called immediately and its result is passed to {
@link List<UpgradeStepItem>}.

@see stepsList(List<UpgradeStepItem>)
@returns Returns a reference to this object so that method calls can be chained together.
@see #stepsList(List<UpgradeStepItem>)",
"deprecated" : false,
"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> ",

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "stepsList",
"fluentSetterDocumentation" : "<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.
@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName" : "stepsList",
"getterDocumentation" : "<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>
<p> Attempts to modify the collection returned by this method will result in an UnsupportedOperationException. </p>
@return 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.",

"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)].

@returns Returns a reference to this object so that method calls can be chained together.

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.

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.

The value of the Member property for this object.

@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"
},
"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.

"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
} ]
", "requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "UpgradeHistory",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "UpgradeHistory",
  "variableName" : "upgradeHistory",
  "variableType" : "UpgradeHistory",
  "documentation" : null,
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "UpgradeHistory"
},
"wrapper" : false
}.

"UpgradeStatus" : {
  "c2jName" : "UpgradeStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
}
,"deprecated" : false,
"documentation" : ":",
"endpointDiscovery" : null,
"enums" : 
[ 
  "name" : "IN_PROGRESS",
  "value" : "IN_PROGRESS"
],
  "name" : "SUCCEEDED",
  "value" : "SUCCEEDED"
],
  "name" : "SUCCEEDED_WITH_ISSUES",
  "value" : "SUCCEEDED_WITH_ISSUES"
],
  "name" : "FAILED",
  "value" : "FAILED"

},
"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" : "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,
"hasStatusCodeMember": 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",
    "defaultValueConsumerFluentSetterDocumentation": "<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 String.Builder avoiding the need to create one manually via String.builder().\nWhen the @link Consumer completes, String.Builder#build() is called immediately and its result is passed to UpgradeStepAsString(String).\n@deprecated deprecated a consumer that will call methods on String.Builder\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #upgradeStep(String)",
    "documentation": "<p>Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck, Snapshot, Upgrade</p>"
  ]
},
"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",
    "defaultValueConsumerFluentSetterDocumentation": "<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 String.Builder avoiding the need to create one manually via String.builder().\nWhen the @link Consumer completes, String.Builder#build() is called immediately and its result is passed to UpgradeStepAsString(String).\n@deprecated deprecated a consumer that will call methods on String.Builder\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #upgradeStep(String)",
    "documentation": "<p>Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck, Snapshot, Upgrade</p>"
  ]
},
"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",
    "defaultValueConsumerFluentSetterDocumentation": "<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 String.Builder avoiding the need to create one manually via String.builder().\nWhen the @link Consumer completes, String.Builder#build() is called immediately and its result is passed to UpgradeStepAsString(String).\n@deprecated deprecated a consumer that will call methods on String.Builder\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #upgradeStep(String)",
    "documentation": "<p>Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck, Snapshot, Upgrade</p>"
  ]
}
"endpointDiscoveryId" : false,
"enumType" : "UpgradeStep",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterMethodName" : "upgradeStep",
"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
@returns Returns a reference to this object so that method calls can be chained together.
@see 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}.

@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> </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>

"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" : "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> <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\n@param upgradeStepStatus 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 #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> ",

"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@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>
If the service returns an enum value that is not available in the current SDK version, {[link UpgradeStatus#UNKNOWN_TO_SDK_VERSION]}. The raw value returned by the service is available from {[link upgradeStepStatusAsString]}.\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,
"jsonData" : 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@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"
@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>

"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: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getIssues",
"beanStyleSetterMethodName" : "setIssues",
"c2jName" : "Issues",
"c2jShape" : "Issues",
"defaultConsumerFluentSetterDocumentation" : "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(List<String>)\}.\n\n@deprecated\n@see #issues(List<String>)"
,"documentation" : "A list of strings containing detailed information about the errors encountered in a particular step."
,"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.

@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)}.

@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",
"fluentSetterMethodName" : null,
"getterDocumentation" : "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.",
"getterMethod" : "member",
"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.

@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.",
"setterMethod" : "setMember",
"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" : "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.
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, the builder is called immediately and its result is passed to the
builder.<param progressPercent a consumer that will call methods on the builder>.<returns Returns a reference to this object so that method calls can be chained together.>.
"deprecated" : false,
"documentation" : "The Floating point value representing progress percentage of a particular step.
endpointDiscoveryId" : 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.
@param progressPercent The Floating point value representing progress percentage of a particular step.<returns Returns a reference to this object so that method calls can be chained together.>.
"getterDocumentation" : "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.

@<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" : "<p>The Floating point value representing progress percentage of a particular step.</p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
  "Issues" : {
    "beanStyleGetterMethodName" : "getIssues",
    "beanStyleSetterMethodName" : "setIssues",
    "c2jName" : "Issues",
    "c2jShape" : "Issues",
    "defaultConsumerFluentSetterDocumentation" : "<p>A list of strings containing detailed information about

"}
the errors encountered in a particular step.</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, the call to {@link #issues(List<String>)} is called immediately and its result is passed to the consumer that will call methods on the {List<String>}.<br/>

* @return Returns a reference to this object so that method calls can be chained together.*

"deprecated" : false,
"documentation" : "A list of strings containing detailed information about the errors encountered in a particular step."

"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.

* @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 UnsupportedOperation exception.

* @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@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.\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.\n@see #member(String)",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object."
  },
  "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",
  }
},
"Open Source Used In MSX SD-WAN Service Pack 4.0.0 10275"
"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" : "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
},
"ProgressPercent" : {
"beanStyleGetterMethodName" : "getProgressPercent",
"beanStyleSetterMethodName" : "setProgressPercent",
"c2jName" : "ProgressPercent",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>\n\nThis is a convenience that creates an instance of the [@link Double.Builder] avoiding the need to create one manually via [@link Double.Builder#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@see #progressPercent(Double)",
"deprecated" : false,
"documentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "progressPercent",
"xmlNameSpaceUri" : null
}
"fluentSetterDocumentation": "\n\n\n@param progressPercent The Floating point value representing progress percentage of a particular step.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n",
"fluentSetterMethodName": "progressPercent",
"getterDocumentation": "\n\n\n@return The Floating point value representing progress percentage of a particular step.\n\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": "ProgressPercent",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ProgressPercent",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
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"敏感": false,
"setterDocumentation": "\n\n\n@param progressPercent The Floating point value representing progress percentage of a particular step.\n\n",
"setterMethodName": "setProgressPercent",
"setterModel": {
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"variableType": "Double",
"documentation": null,
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"simple": true,
"timestampFormat": null,
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  "variableDeclarationType": "Double",
  "variableName": "progressPercent",
  "variableType": "Double",
  "documentation": "The floating point value representing progress percentage of a particular step."
},
"xmlNameSpaceUri": null},
"UpgradeStep":{
  "beanStyleGetterMethodName": "getUpgradeStepAsString",
  "beanStyleSetterMethodName": "setUpgradeStep",
  "c2jName": "UpgradeStep",
  "c2jShape": "UpgradeStep",
  "defaultConsumerFluentSetterDocumentation": "Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck, Snapshot, Upgrade."

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 UpgradeStepAsString(String).

@deprecated
@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStep
@see #upgradeStep(String)
"documentation": "Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck, Snapshot, Upgrade."
"endpointDiscoveryId": false,
"enumType": "UpgradeStep",
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"eventPayload": false,
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"fluentSetterDocumentation": "Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck, Snapshot, Upgrade."
@deprecated
@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStep
@see #upgradeStep(String)
"fluentSetterMethodName": "upgradeStep",
"getterDocumentation": "Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck, Snapshot, Upgrade."
@deprecated
@return Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck, Snapshot, Upgrade."
@see UpgradeStep
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  "returnType": "String",
  "documentation": null}
"http": {  
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  "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> </p>\n@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>\n@see UpgradeStep",  
"setterMethodName" : "setUpgradeStep",  
"setterModel" : {  
  "variableDeclarationType" : "String",  
  "variableName" : "upgradeStep",  
  "variableType" : "String",  
  "documentation" : null,  
  "simpleType" : "String",  
  "variableSetterType" : "String"  
},  
"simple" : true,  
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"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>\n@see UpgradeStep",  
...
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpgradeStepStatus" : {
"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()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link UpgradeStepStatusAsString(String)}.\n\n@attr @param upgradeStepStatus a consumer that will call methods on { @link String.Builder}\n\n@see UpgradeStepStatusAsString(String)"",
"deprecated" : false,
"documentation" : "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\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 UpgradeStepStatusAsString(String)}.\n\n@attr @param upgradeStepStatus a consumer that will call methods on { @link String.Builder}\n\n@see UpgradeStepStatusAsString(String)",
"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\nIf the service returns an enum value that is not available in the current SDK version, { @link UpgradeStepStatus} will return { @link UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link UpgradeStepStatusAsString}.\n\n@attr @see UpgradeStepStatus\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see 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 UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link UpgradeStepStatusAsString}.\n\n@attr @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\nIf the service returns an enum value that is not available in the current SDK version, { @link UpgradeStepStatus} will return { @link UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link UpgradeStepStatusAsString}.\n\n@attr @see UpgradeStepStatus\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see UpgradeStepStatus",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
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"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>

@see UpgradeStatus",
"setterMethodName" : "setUpgradeStepStatus",
"setterModel" : {
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  "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:  
<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": [
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"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>\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
When the \( @link \) String.Builder completes, \( @link \) String.Builder#build() is called immediately and its result is passed to \( @link \) upgradeStepAsString(String).\n
\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>\n\</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
When the \( @link \) String.Builder completes, \( @link \) String.Builder#build() is called immediately and its result is passed to \( @link \) upgradeStepAsString(String).\n
\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)\.
"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>\n\@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>\n\@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>\n\nIf 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.\n
The raw value returned by the service is available from \( @link \) upgradeStepAsString().\n\@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>\n\@see \#UpgradeStep",
"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": "UpgradeStep",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "UpgradeStep",
"uri": false
},
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"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> 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

@see UpgradeStep",
"setterMethodName": "setUpgradeStep",
"setterModel": {
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  "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> 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",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsSpaceUri": null
},
"beanStyleGetterMethodName" : "getUpgradeStepStatusAsString",
"beanStyleSetterMethodName" : "setUpgradeStepStatus",
"c2jName" : "UpgradeStepStatus",
"c2jShape" : "UpgradeStatus",
"documentation" : "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 [String.Builder] 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 [UpgradeStepStatusAsString].

When the Consumer completes, [String.Builder] is called immediately and its result is passed to [UpgradeStepStatusAsString].

@deprecated
@see UpgradeStatus

@see UpgradeStatus
|
@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStatus
|

rigorously

"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>
If the service returns an enum value that is not available in the current SDK version, [UNKNOWN_TO_SDK_VERSION] will return The raw value returned by the service is available from [UpgradeStepStatusAsString].

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>
|"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>
|"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>
|"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",
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "upgradeStepStatus",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"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@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",
"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": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getIssues",
"beanStyleSetterMethodName" : "setIssues",
"c2jName" : "Issues",
"c2jShape" : "Issues",
"defaultConsumerFluentSetterDocumentation" : "<p>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 List<String> Consumer] completes, [@link List<String>.Builder#build()] is called immediately and its result is passed to [@link #issues(List<String>)].</p><p>@param issues 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.</p>@see #issues(List<String>)",
"deprecated" : false,
"documentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetSetterMethodName" : "issues",
"fluentSetterDocumentation" : "<p>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>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>The collection returned by this method will result in an UnsupportedOperationException.</p><p>@return Returns a reference to this object so that method calls can be chained together.</p>",
"fluentSetterMethodName" : "issues",
"getterDocumentation" : "<p>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>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>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p><p>@return A list of strings containing detailed information about the errors encountered in a particular step.</p>",
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
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"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 \n[link String.Builder] avoiding the need to create one manually via \n[link String.Builder#builder()].\nWhen the \n[link Consumer] completes, \n[link String.Builder#build()] is called immediately and its result is passed to \n[link #member(String)].\n@param member 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 #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\nThe 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."
  ),
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
  
}
"marshallLocationName": "member",
"queryString": false,
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"uri": false
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"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": {
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  "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>"
"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. 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)].

@see #progressPercent(Double)",
"deprecated" : false,
"documentation" : "The Floating point value representing progress percentage of a particular step.",
"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.\n</p>@param progressPercent The Floating point value representing progress percentage of a particular step.\n@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.\n</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.\n</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",
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "ProgressPercent",
   "marshallType" : "DOUBLE",
   "name" : "ProgressPercent"
}
"variableSetterType" : "Double",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "progressPercent",
  "variableType" : "Double",
  "documentation" : "&lt;p&gt;The floating point value representing progress percentage of a particular step.&lt;/p&gt;",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null,
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : null,
"shapeName" : "UpgradeStepItem",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : 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" : "&lt;p&gt;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" target="_blank"&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/a&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" : "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>\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 #vpcId(String)}\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>",
  "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>\n@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" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
 "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()}. When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link List<String>.Builder#build()}.

When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link List<String>.Builder#build()}. 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,
"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>Specifies the subnets for VPC endpoint.</p>
<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.\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.\n@see #member(String)",
    "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@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": "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>)}. When the availabilityZones a consumer that will call methods on {<link List<String>.Builder} and returns a reference to this object so that method calls can be chained together. @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>"
domain. Exists only if the domain was created with VPCOptions.\n\n@return Returns a reference to this object so that method calls can be chained together.
 },

"getters": 

"fluentSetterMethodName": "availabilityZones",

"getterDocumentation": "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@return The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",

"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,

"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\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.

@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",
"setterDocumentation" : "Sets the value of the Member property for this object.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return A reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
"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.

@n@param member The new value for the Member property for this object.

@return 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": "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 #securityGroupIds(List<String>) ].
@param securityGroupIds 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 #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>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
@param securityGroupIds Specifies the security groups for VPC endpoint.
@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.\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 #member(String)\}.\n\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)\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\nThe new value for the Member property for this object.\n\n@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\nThe value of the Member property for this object.\n",
"getterModel" : {
"returnType" : "String",
"documentation" : null
}
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"isPayload" : false,
"isStreaming" : false,
"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.\n",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String"
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" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
}]
"membersAsMap" : {
  "AvailabilityZones" : {
    "beanStyleGetterMethodName" : "getAvailabilityZones",
    "beanStyleSetterMethodName" : "setAvailabilityZones",
    "c2jName" : "AvailabilityZones",
    "c2jShape" : "StringList",
    "defaultValueConsumerForSetter" : "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>)].</p>

@param availabilityZones
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.\n\n@see availabilityZones(List<String>)",
"deprecated" : false,
"documentation" : "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
\n\n@param availabilityZones The availability zones 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."
"fluentSetterMethodName" : "availabilityZones",
"getterDocumentation" : "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.
\n\n@return The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"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" : {"returnType" : "java.util.List<String>",
"documentation" : null
}
"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)}.

@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}
@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.

@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"
 },
 "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" : "AvailabilityZones",
 "sensitive" : false,
 "setterDocumentation" : "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions."
"\n@\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
},
"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, {@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}
@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>"
"fluentSetterMethodName" : "securityGroupIds",
"getterDocumentation" : "<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.
"Attempt 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",
    "documentation" : "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#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}. 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 {@link String#builder()}",
    "deprecated" : false,
    "endpointDiscoveryId" : null,
    "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@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",

"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@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" : "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" : "&lt;p&gt;Specifies the subnets for VPC endpoint.&lt;/p&gt;\nThis 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()}.\nWhen the {@link Consumer} completes, {@link List&lt;String&gt;}.Builder#build()} is called immediately and its result is passed to {@link #subnets(List&lt;String&gt;)} a consumer that will call methods on {@link List&lt;String&gt;}.Builder\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #subnets(List&lt;String&gt;)",
  "deprecated" : false,
  "documentation" : "&lt;p&gt;Specifies the subnets for VPC endpoint.&lt;/p&gt;",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "subnetIds",
  "fluentSetterDocumentation" : "&lt;p&gt;Specifies the subnets for VPC endpoint.&lt;/p&gt;\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@returns Specifies the subnets for VPC endpoint.\n\n@param subnetIds\n\n@see #subnets(List&lt;String&gt;)",
  "getterDocumentation" : "&lt;p&gt;Specifies the subnets for VPC endpoint.&lt;/p&gt;\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@returns Specifies the subnets for VPC endpoint.\n\n@see #subnets(List&lt;String&gt;)",
  "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" : "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 } 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.
@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.\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
},
"VPCId" : {
"beanStyleGetterMethodName" : "getVpcId",
"beanStyleSetterMethodName" : "setVpcId",
"c2jName" : "VPCId",
"c2jShape" : "String",
"defaultValueFluentSetterDocumentation" : "<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)}. In param vpcId 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 #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" : "&lt;p&gt;The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.&lt;/p&gt;

@summary The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.&lt;/summary&gt;

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "vpcId",
"getterDocumentation" : "&lt;p&gt;The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.&lt;/p&gt;

@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" : "&lt;p&gt;The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.&lt;/p&gt;

@summary The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

@return The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

"setterMethodId" : "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>\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 String 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>\n
The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
@see #vpcId(String)"
,"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."",
"fluentSetterMethodName" : "vpcId",
"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."
"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" : "The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions."
@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
},

"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",
"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.
@param subnetIds Specifies the subnets for VPC endpoint.
@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.\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@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\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" : "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."
setMember",
"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,
"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\n@param availabilityZones The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "availabilityZones",
"getterDocumentation" : "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.\nAttemps to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@return The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions."

"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)].

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.

@see #member(String)",

"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.

@see #member(String)",

"getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.

@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": 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": "AvailabilityZones",
"sensitive": false,
"setterDocumentation": "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.\n\n@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": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "availabilityZones",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
}
"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" : "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" : "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()}.
@param securityGroupIds 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.<p>
@see #securityGroupIds(List<String>)
",
"deprecated" : false,
"documentation" : "Specifies the security groups for VPC endpoint.<p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "securityGroupIds",
"fluentSetterDocumentation" : "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.
",
"getterDocumentations" : "Attempts to modify the collection returned by this method will result in an UnsupportedOperationExcepition.<p>
@return Specifies the security groups for VPC endpoint.<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": "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.\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)\n@return Returns a reference to this object so that method calls can be chained together.\n\n@link #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.\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@param member a consumer that will call methods on [\@link String.Builder]\n\n@see #member(String)\n@param member \n@return Returns a reference to this object so that method calls can be chained together.\n\n@link #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.\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@param member a consumer that will call methods on [\@link String.Builder]\n\n@see #member(String)\n@param member \n@return Returns a reference to this object so that method calls can be chained together.\n\n@link #member(String)\n@deprecated" : false,
"documentation": "",
"endpointDiscoveryId": false,
"getterDocumentation": "Returns the value of the Member property for this object.

@return The value of the Member property for this object.",

"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": "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": "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": {
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  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
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"simple": true,

"timestampFormat": null,

"variable": {
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"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
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"xmlnsNameSpaceUri" : null
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"memberAdditionalUnmarshallingPath" : null,
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"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
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"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" : {
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  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
  
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  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
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    "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>"
    
",
    "xmlnsNameSpaceUri" : null
    
  }
  ]
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"requestSignerClassFqcn" : null,
"required" : null,
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"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "vpcDerivedInfo",
  "variableType" : "VPCDerivedInfo",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
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"wrapper" : false
},
"VPCDerivedInfoStatus" : {
  "c2jName" : "VPCDerivedInfoStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p> Status of the VPC 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,
  "marshaller": null,
  "members" : [
    "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#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 Specifies the VPC options for the specified Elasticsearch domain.

getterDocumentation : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>

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.</p>\n@param options 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,

"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<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()}.\n  When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #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 #status(OptionStatus)"
, "deprecated": false,
"documentation": "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.</p>\n  "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>\n  @param status Specifies the status of the VPC 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 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
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"http" : {
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    "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."

@param status Specifies the status of the VPC options for the specified Elasticsearch domain."

setterMethodName" : "setStatus",
"setterModel" : {
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    "variableSetterType" : "OptionStatus"
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"timestampFormat" : null,
"variable" : {
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    "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
} ],
"membersAsMap" : {
 "Options" : {
 "beanStyleGetterMethodName" : "getOptions",
 "beanStyleSetterMethodName" : "setOptions",
 "c2jName" : "Options",
 "c2jShape" : "VPC DerivedInfo",
 "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain. This is a convenience that creates an instance of the { @link VPC DerivedInfo.Builder} avoiding the need to create one manually via { @link VPC DerivedInfo.Builder#builder()}. When the { @link Consumer} completes, { @link VPC DerivedInfo.Builder#build()} is called immediately and its result is passed to { @link #options(VPC DerivedInfo)}. @param options a consumer that will call methods on { @link VPC DerivedInfo.Builder}@return Returns a reference to this object so that method calls can be chained together. @see #options(VPC DerivedInfo)",
 "deprecated" : false,
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 "endpointDiscoveryId" : false,
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 "fluentEnumGetterMethodName" : null,
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 "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>",
 "getterModel" : {
 "returnType" : "VPC DerivedInfo",
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 "http" : {
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 "payloadMarshallingTypeAsModel" : null,
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 "marshallerType" : null,
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 "payloadMarshallingType" : null,
 "payloadMarshallingTypeAsModel" : null,
 "marshaller" : null,
 "marshallerType" : null,
 "marshallerTypeAsModel" : null,
 "marshallingType" : null,
 "payloadMarshallingPath" : null,
 "payloadMarshallingType" : null,
"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.</p>
@param options 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>
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
#status(OptionStatus)

@method

述status的status的VPC options for the specified Elasticsearch domain.

## Documentation

- ** SND: ** "Specifies the status of the VPC options for the specified Elasticsearch domain."
- ** param status ** "Specifies the status of the VPC options for the specified Elasticsearch domain.

## Request Fields

- ** endpointDiscoveryId ** "false,
- ** enumType ** "null,
- ** eventHeader ** "false,
- ** eventPayload ** "false,
- ** fluentEnumMethodName ** "null,
- ** fluentEnumSetterMethodName ** "null,
- ** fluentSetterMethodName ** "status",
- ** fluentSetterDocumentation ** "Specifies the status of the VPC options for the specified Elasticsearch domain.

## Response Fields

- ** returnModel ** 
  - ** 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,
- ** 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}
@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>\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,
"jsonData" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"simpleType" : false,
"setterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.<p>\n@param options 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
},
  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the VPC 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 OptionStatus.Builder#status(OptionStatus)}.<br>
@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.
@see #status(OptionStatus)
",
  "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" : null,
    "defaultQuotationStyle" : null,
    "locationName" : null,
    "quotationStyle" : null,
    "soapAction" : null,
    "url" : null,
    "fluentSetterMethodName" : "setStatus",
    "cppStyleSetterMethodName" : "setStatus",
    "csharpStyleSetterMethodName" : "setStatus",
    "javaStyleSetterMethodName" : "setStatus",
    "javascriptStyleSetterMethodName" : "setStatus",
    "pythonStyleSetterMethodName" : "setStatus",
    "swiftStyleSetterMethodName" : "setStatus",
    "xmlStyleSetterMethodName" : "setStatus"
  },
  "location" : null,
  "locationName" : null,
  "marshaller" : null,
  "marshallerClass" : null,
  "marshallerModuleName" : null,
  "quotationStyle" : null,
  "soapAction" : null,
  "url" : null,
  "c2jNameType" : null,
  "c2jSimpleType" : "OptionStatus",
  "c2jSimpleTypeWithList" : null,
  "c2jSimpleTypeWithMap" : null,
  "c2jSimpleTypeWithOptional" : null,
  "c2jSimpleTypeWithOptionalMap" : null,
  "c2jSimpleTypeWithOptionalList" : null,
  "c2jShape" : "OptionStatus",
  "c2jShapeWithList" : null,
  "c2jShapeWithMap" : null,
  "c2jShapeWithOptional" : null,
  "c2jShapeWithOptionalMap" : null,
  "c2jShapeWithOptionalList" : null,
  "c2jSimpleType" : "OptionStatus",
  "c2jSimpleTypeWithList" : null,
  "c2jSimpleTypeWithMap" : null,
  "c2jSimpleTypeWithOptional" : null,
  "c2jSimpleTypeWithOptionalMap" : null,
  "c2jSimpleTypeWithOptionalList" : null,
  "c2jShape" : "OptionStatus",
  "c2jShapeWithList" : null,
  "c2jShapeWithMap" : null,
  "c2jShapeWithOptional" : null,
  "c2jShapeWithOptionalMap" : null,
  "c2jShapeWithOptionalList" : null,
  "c2jSimpleType" : "OptionStatus",
  "c2jSimpleTypeWithList" : null,
  "c2jSimpleTypeWithMap" : null,
  "c2jSimpleTypeWithOptional" : null,
  "c2jSimpleTypeWithOptionalMap" : null,
  "c2jSimpleTypeWithOptionalList" : null,
  "c2jShape" : "OptionStatus",
  "c2jShapeWithList" : null,
  "c2jShapeWithMap" : null,
  "c2jShapeWithOptional" : null,
  "c2jShapeWithOptionalMap" : null,
  "c2jShapeWithOptionalList" : null,
  "c2jSimpleType" : "OptionStatus",
  "c2jSimpleTypeWithList" : null,
  "c2jSimpleTypeWithMap" : null,
  "c2jSimpleTypeWithOptional" : null,
  "c2jSimpleTypeWithOptionalMap" : null,
  "c2jSimpleTypeWithOptionalList" : null,
  "c2jShape" : "OptionStatus",
  "c2jShapeWithList" : null,
  "c2jShapeWithMap" : null,
  "c2jShapeWithOptional" : null,
  "c2jShapeWithOptionalMap" : null,
  "c2jShapeWithOptionalList" : null,
"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>

@p> 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>

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 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>
  "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>
    <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    When the \{ @link Consumer \} completes, \{ @link List\<String\>\#builder() \} is called immediately and its result is passed to \{ @link List\<String\>\#builder() \}.\n    A reference is returned 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 \#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.
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</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
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.

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.

```java
"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" : "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",

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"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" : "SubnetIds",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
\n@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,
"variableName" : "subnetIds",
"documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>
}
,"variableDeclarationType" : "java.util.List<String>",
"variableName" : "securityGroupIds",
"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 ] a consumer that will call methods on [ @link List<String>.Builder ] 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.
",
"getterDocumentation" : "<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperation Exception.</p>

@see #getSecurityGroupIds()
"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,


"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",
  "simple": true,
"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>
],
"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
],
"membersAsMap" : {
  "SecurityGroupIds" : {
    "beanStyleGetterMethodName" : "getSecurityGroupIds",
    "beanStyleSetterMethodName" : "setSecurityGroupIds",
    "c2jName" : "SecurityGroupIds",
    "c2jShape" : "StringList",
"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. 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.\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>"
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"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>\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 List<String>.Builder#build() }.\n\nWhen the { @link Consumer } completes, { @link List<String>.Builder#build() } is called immediately and its result is passed to { @link List<String>.Builder#build() }.
@param subnetIds a consumer that will call methods on { @link List<String>}
@return Returns a reference to this object so that method calls can be chained together.\n@see #subnetIds(List<String>)",
"deprecated" : false,
"documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
"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.",
"fluentSetterMethodName" : "subnetIds",
"fluentSetterMethodLocation" : "none"}
"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.\n    This is a convenience that creates an instance of the \n    [\n    @link\n    String.Builder\n    ] avoiding the need to create one manually via \n    [\n    @link\n    String.Builder\n    build()\n    ].\n    When the \n    [\n    @link\n    Consumer\n    ] completes, \n    [\n    @link\n    String.Builder\n    build()\n    ] is called immediately and its result is passed to \n    [\n    @link\n    #member(String)\n    ].\n    @param member a consumer that will call methods on \n    [\n    @link\n    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",
"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.
 firefighter
@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"}
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.<br/>
@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.<br/>
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"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.\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 #subnetIds(List<String>)\}.\n\n@param subnetIds a consumer that will call methods on \{ @link List<String>.Builder\}\n@see #subnetIds(List<String>)\n",
"deprecated" : false,
"documentation" : "<p>Specifies the subnets for VPC endpoint.\n</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "subnetIds",
"fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.\n\n@description Specifies the subnets for VPC endpoint.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n</p>\n\n\n@return Specifies the subnets for VPC endpoint.\n",
"getterDocumentation" : "<p>Specifies the subnets for VPC endpoint.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n\n@return Specifies the subnets for VPC endpoint.\n",
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
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"http" : {
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"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SubnetIds",
"queryString" : false,
"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,
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  "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>"
},
"xmlnsNameSpaceUri" : null
},
{
"beanStyleGetterMethodName" : "getSecurityGroupIds",
"beanStyleSetterMethodName" : "setSecurityGroupIds",
"c2jName" : "SecurityGroupIds",
"c2jShape" : "StringList",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the security groups 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 {@link Consumer} completes, the result is passed to the securityGroupIds method. A more complex chained method returns a reference to this object so that method calls can be chained together.<p></p>"",
"deprecated" : false,
"documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
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"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "securityGroupIds",
"fluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.
@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.
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
},
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"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) }."
},
@return Returns a reference to this object so
that method calls can be chained together.\n@see #member(String)

"deprecated" : false,
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"endpointDiscoveryId" : false,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodDocumentation" : "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.",
"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",
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"additionalMarshallingPath" : null,
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"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",
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  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
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"simple" : true,
"timestampFormat" : null,
"variable" : {
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  "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.</p>",
    "simpleType" : "List<String>",
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"xmlNameSpaceUri" : null
} ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "VPCOptions",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
},
"variable" : {
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    "variableName" : "vpcOptions",
    "variableType" : "VPCOptions",
    "documentation" : null,
    "simpleType" : "VPCOptions",
    "variableSetterType" : "VPCOptions"
},
"wrapper" : false
},
"ValidationException" : {
    "c2jName" : "ValidationException",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingUnmarshallerer" : 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": {
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  "variableName": "validationException",
  "variableType": "ValidationException",
  "documentation": null,
  "simpleType": "ValidationException",
  "variableSetterType": "ValidationException"
},
"wrapper": false
},
"VolumeType": {
  "c2jName": "VolumeType",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "endpointDiscovery": null,
  "enums": [
    { "name": "STANDARD", "value": "standard" },
    { "name": "GP2", "value": "gp2" },
    { "name": "IO1", "value": "io1" }
  ]
};
"sdkModeledExceptionBaseFqcn": "software.amazon.awssdk.services.elasticsearch.model.ElasticsearchException",
"sdkRequestBaseClassName": "ElasticsearchRequest",
"sdkResponseBaseClassName": "ElasticsearchResponse"
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/models/es-2015-01-01-intermediate.json

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

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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.
* </p>
/**
 * @param upgradeElasticsearchDomainRequest
 * Container for request parameters to <code> <a>UpgradeElasticsearchDomain</a> </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>
 * </ul>
 */
* <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>
* @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

1.1170 startpar 0.61 1
1.1170.1 Available under license :

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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
  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
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Ty Coon, President of Vice

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#!/usr/bin/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 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: $!";

  # Read the file and extract the latest copyright year
  # The actual code to read the file and extract the year
  # should be implemented here...

  # Example: Assuming the year is stored in a variable named $year
  # $year = ...

  return $year;
}
# 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;
}

1.1172 jetty-client 9.4.29.v20200521

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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

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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

------

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

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Assorted

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1.1173 concurrentlinkedhashmap-lru 1.4.1

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1.1175 neo4j-collections 3.5.14

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2.15.0
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2.reporter.metrics.micrometer
Bnd-LastModified: 1589702936955
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Reporter Metrics by Micrometer
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-reporter-metrics-micrometer
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.metrics.micrometer;version="2.15.0";uses="io.micrometer.core.instrument,zipkin2.reporter"
Import-Package: io.micrometer.core.instrument,zipkin2.reporter;version="[2.15,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1096695463_1601878587.59/0/zipkin-reporter-metrics-micrometer-2-15-0-jar/META-INF/MANIFEST.MF

1.1178 reindex 5.6.4

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1.1180 hashicorp-mdns 1.0.1
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* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
  jar/org.jboss.marshalling/byte/ByteReadField.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
  jar/org.jboss.marshalling/short/ShortReadField.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
  jar/org.jboss.marshalling/util/ShortReadField.java
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  jar/org.jboss.marshalling/ByteReadField.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
  jar/org.jboss.marshalling/util/Kind.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling:2-0-9-final-sources-1-
  jar/org.jboss.marshalling/cloner/ObjectClonerFactory.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling:2-0-9-final-sources-1-
  jar/org.jboss.marshalling/byte/ByteReadField.java
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* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/Unmarshaller.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/MarshallerObjectOutput.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/Creator.java
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jar/org/jboss/marshalling/ChainingObjectResolver.java
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jar/org/jboss/marshalling/MarshallerObjectOutputStream.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/SerializabilityChecker.java
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jar/org/jboss/marshalling/util/FlatNavigableSet.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/AbstractUnmarshaller.java
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jar/org/jboss/marshalling/Externalizer.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/ByteBufferInput.java
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* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/ClassLoader.java
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jar/org/jboss/marshalling/reflect/SerializableClass.java
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jar/org/jboss/marshalling/reflect/PublicReflectiveCreator.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/ClassResolver.java
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jar/org/jboss/marshalling/util/FieldPutter.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/ContextClassResolver.java
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jar/org/jboss/marshalling/util/ShortFieldPutter.java
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jar/org/jboss/marshalling/ObjectInputStreamUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/SimpleDataOutput.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/MarshallerObjectInputStream.java
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jar/org/jboss/marshalling/util/LongReadField.java
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jar/org/jboss/marshalling/_private/GetDeclaredConstructorAction.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
jar/org/jboss/marshalling/_private/GetUnsafeAction.java
* /opt/ws_local/PERMITS_SQL/1074947655_1596001757.62/0/jboss-marshalling-2-0-9-final-sources-1-
1.1183 log4javascript ^1.4.9

1.1184 wildfly 18.0.1.Final
1.1184.1 Available under license :

```xml
<?xml version="1.0"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:param name="version" />
  <xsl:param name="product.release.name" />
  <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '" />
  <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'">
    <xsl:template match="/">
      <html>
        <head>
          <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
          <link rel="stylesheet" type="text/css" href="licenses.css"/>
        </head>
        <body>
          <h2><xsl:value-of select="$product.release.name"/></h2>
          <p>The following material has been provided for informational purposes only, and should not be relied upon or construed as a legal opinion or legal advice.</p>
          <!-- Read matching templates -->
          <table>
            <tr>
              <th>Package Group</th>
              <th>Package Artifact</th>
              <th>Package Version</th>
              <th>Remote Licenses</th>
              <th>Local Licenses</th>
            </tr>
            <!-- Add rows here -->
          </table>
        </body>
      </html>
    </xsl:template>
</xsl:stylesheet>
```
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  <xsl:output method="xml" indent="yes"/>

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            </xsl:copy>
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        </xsl:for-each>
      </dependencies>
    </licenseSummary>
  </xsl:template>

  <xsl:template match="@* | node()">
    <xsl:copy>
      <xsl:apply-templates select="@* | node()"/>
    </xsl:copy>
  </xsl:template>
</xsl:stylesheet>
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```xml
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
<xsl:param name="version"/>
<xsl:param name="product.release.name"/>
<xsl:variable name="lowercase" select=""abcdefghijklmnopqrstuvwxyz "" />
<xsl:variable name="uppercase" select="ABCDEFGHIJKLMNOPQRSTUVWXYZ!"" />

<xsl:template match="/"
    html>
    <head>
        <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
        <link rel="stylesheet" type="text/css" href="licenses.css"/>
    </head>
    <body>
        <h2><xsl:value-of select="$product.release.name"/>- Feature Pack</h2>
        <p>The following material has been provided for informational purposes only, and should not be relied upon or construed as a legal opinion or legal advice.</p>
        <!-- Read matching templates -->
        <table>
            <tr>
                <th>Package Group</th>
                <th>Package Artifact</th>
                <th>Package Version</th>
                <th>Remote Licenses</th>
                <th>Local Licenses</th>
            </tr>
            <xsl:for-each select="licenseSummary/dependencies/dependency">
                <xsl:sort select="concat(groupId, '.', artifactId)"/>
                <tr>
                    <td><xsl:value-of select="groupId"/></td>
                    <td><xsl:value-of select="artifactId"/></td>
                    <td><xsl:value-of select="version"/></td>
                    <td>
                        <xsl:for-each select="licenses/license">
                            <xsl:choose>
                                <xsl:when test="name = 'Public Domain'">
                                    <xsl:value-of select="name"/><br/>
                                </xsl:when>
                                <xsl:otherwise>
                                    <a href="[./url]"><xsl:value-of select="name"/></a><br/>
                                </xsl:otherwise>
                            </xsl:choose>
                        </xsl:for-each>
                    </td>
                    <td>Local Licenses</td>
                </tr>
            </xsl:for-each>
        </table>
    </body>
</xsl:stylesheet>
Open Source Used In MSX SD-WAN Service Pack 4.0.0 10498
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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

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This
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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(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.

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whether or not they are linked directly with the Library itself.

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

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<ORGANIZATION> = University of California, Berkeley
<YEAR> = 1998

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```xml
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" indent="yes"/>
  <xsl:param name="fileList"/>
  <xsl:param name="fileSeparator"/>
  <xsl:template match="/">
    <xsl:call-template name="startDocument"/>
    <xsl:call-template name="tokenizeString">
      <xsl:with-param name="list" select="$fileList"/>
      <xsl:with-param name="delimiter" select="",""/>
    </xsl:call-template>
    <xsl:call-template name="endDocument"/>
  </xsl:template>
</xsl:stylesheet>
```
<xsl:choose>
  <xsl:when test="contains($list, $delimiter)">
    <!-- get everything in front of the first delimiter -->
    <xsl:call-template name="processFile">
      <xsl:with-param name="fileName" select="substring-before($list,$delimiter)"/>
    </xsl:call-template>
    <!-- store anything left in another variable -->
    <xsl:call-template name="tokenizeString">
      <xsl:with-param name="list" select="substring-after($list,$delimiter)"/>
      <xsl:with-param name="delimiter" select="$delimiter"/>
    </xsl:call-template>
  </xsl:when>
  <xsl:otherwise>
    <!-- FILE PROCESSING -->
    <xsl:template name="substring-after-last">
      <xsl:param name="string"/>
      <xsl:param name="delimiter"/>
      <xsl:choose>
        <xsl:when test="contains($string, $delimiter)">
          <xsl:call-template name="substring-after-last">
            <xsl:with-param name="string" select="substring-after($string, $delimiter)"/>
            <xsl:with-param name="delimiter" select="$delimiter"/>
          </xsl:call-template>
        </xsl:when>
        <xsl:otherwise><xsl:value-of select="$string"/></xsl:otherwise>
      </xsl:choose>
    </xsl:template>
    <xsl:template name="startDocument">
      <xsl:text disable-output-escaping="no">
        &lt;licenseSummary&gt;
      </xsl:text>
    </xsl:template>
    <!-- FILE PROCESSING -->
    <xsl:template name="processFile">
      <xsl:with-param name="fileName" select="$list"/>
    </xsl:template>
    <xsl:template name="tokenizeString">
      <xsl:with-param name="list" select="substring-after($list,$delimiter)"/>
      <xsl:with-param name="delimiter" select="$delimiter"/>
    </xsl:template>
    <!-- FILE PROCESSING -->
    <xsl:template name="substring-after-last">
      <xsl:param name="string"/>
      <xsl:param name="delimiter"/>
      <xsl:choose>
        <xsl:when test="contains($string, $delimiter)">
          <xsl:call-template name="substring-after-last">
            <xsl:with-param name="string" select="substring-after($string, $delimiter)"/>
            <xsl:with-param name="delimiter" select="$delimiter"/>
          </xsl:call-template>
        </xsl:when>
        <xsl:otherwise><xsl:value-of select="$string"/></xsl:otherwise>
      </xsl:choose>
    </xsl:template>
    <xsl:template name="startDocument">
      <xsl:text disable-output-escaping="no">
        &lt;licenseSummary&gt;
      </xsl:text>
    </xsl:template>
  </xsl:otherwise>
</xsl:choose>
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--- Read matching templates -->

<table>
<thead>
<tr>
<th>Package Group</th>
<th>Package Artifact</th>
<th>Package Version</th>
<th>Remote Licenses</th>
<th>Local Licenses</th>
</tr>
</thead>
<tbody>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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  <tr>
    <td><xsl:value-of select="groupId"/></td>
    <td><xsl:value-of select="artifactId"/></td>
    <td><xsl:value-of select="version"/></td>
    <td>
      <xsl:for-each select="licenses/license">
        <xsl:choose>
          <xsl:when test="name = 'Public Domain'">
            <xsl:value-of select="name"/><br/>
          </xsl:when>
          <xsl:otherwise>
            <a href="{./url}"><xsl:value-of select="name"/></a><br/>
          </xsl:otherwise>
        </xsl:choose>
      </xsl:for-each>
    </td>
    <td>
      <xsl:for-each select="licenses/license">
        <xsl:variable name="filename">
          <xsl:call-template name="remap-local-filename">
            <xsl:with-param name="name" select="name"/>
          </xsl:call-template>
        </xsl:variable>
      </xsl:for-each>
    </td>
  </tr>
</xsl:if>
```
<a href="$filename">$filename</a><br/>
</xsl:for-each>
</td>
</tr>
</xsl:if>
</xsl:for-each>
</table>
</body>
</html>

<xsl:template name="remap-local-filename">
  <xsl:param name="name"/>
  <xsl:choose>
    <xsl:when test="$name = 'BSD 3-Clause &quot;New&quot; or &quot;Revised&quot; License'">
      <xsl:text>bsd 3-clause new or revised license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'BSD 3-Clause No Nuclear License'">
      <xsl:text>bsd 3-clause no nuclear license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Creative Commons Attribution 2.5'">
      <xsl:text>creative commons attribution 2.5.html</xsl:text>
    </xsl:when>
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      <xsl:text>fsf all permissive license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'GNU General Public License v2.0 only'">
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    </xsl:when>
    <xsl:when test="$name = 'ICU License'">
      <xsl:text>icu license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Indiana University Extreme! Lab Software License 1.1.1'">
      <xsl:text>indiana university extreme lab software license 1.1.1.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Mozilla Public License 2.0'">
      <xsl:text>mozilla public license 2.0.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Plexus Classworlds License'">
      <xsl:text>plexus classworlds license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'Sax Public Domain Notice'">
      <xsl:text>sax public domain notice.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'The JSoup MIT License'">
      <xsl:text>the jsoup mit license.html</xsl:text>
    </xsl:when>
    <xsl:when test="$name = 'W3C Document License'">
      <xsl:text>w3c document license.html</xsl:text>
    </xsl:when>
  </xsl:when>
</xsl:choose>
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<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
    <xsl:param name="version"/>
    <xsl:param name="product.release.name"/>
    <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '"/>
    <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'"/>

    <xsl:template match="/">
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                <link rel="stylesheet" type="text/css" href="licenses.css"/>
            </head>
            <body>
                <h2><xsl:value-of select="$product.release.name"/> - Servlet Feature Pack</h2>
                <p>The following material has been provided for informational purposes only, and should not be relied upon or construed as a legal opinion or legal advice.</p>
                <!-- Read matching templates -->
                <table>
                    <tr>
                        <th>Package Group</th>
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                    </xsl:for-each>
                </table>
            </body>
        </html>
    </xsl:template>
</xsl:stylesheet>
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1.1193 wildfly-transactions 19.1.0.Final

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1.1198 spring-plugin-core 1.2.0.RELEASE

1.1199 python 3.5.5
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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
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</div>
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1.1209 jsr305 3.0.2

1.1210 microprofile-config-api 1.4
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0ubuntu4~12.04.1

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* /opt/cola/permits/1111556675_1606933695.39/0/netty-resolver-4-1-22-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@el.cam.ac.uk> MSF clock driver,
Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
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24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26] Jeff Johnson <sjb@chatham.usdesign.com> massive prototyping overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
   <H.Lambermont@chello.nl> ntpSweep
27. [28] 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@gwdg1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.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 <neal@ntp.org> Bancomm refclock and config/parse code
     maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
     monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for
     NetInfo
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> Unixware1 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
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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

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    type = ntp;
};

long-opts;
config-header = config.h;
environrc;
nomisuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\ sed -e \^\ *\ |/ -e \^\ */,*/ -e \^\ |/ < ../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 = '\$\{VERSION\}\<<?version>>/g';
  // };
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<li><a href="mailto:%20mark_andrews@isc.org">Mark Andrews <mark_andrews@isc.org></a> Leitch atomic clock controller</li>
</ol>
Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices.

Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5.

Michael Barone <michael.barone@lmco.com> GPSVME fixes.

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.

Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver.

Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver. Trimble PARSE support.

Nelson Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snmp.

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.

Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.

John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port.

Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port.

Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119.

John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing.

Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite.

Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver.

Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver.

Mike Iglesias <iglesias@uci.edu> DEC Alpha port.

Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port.

Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul.

Hans Lambermont <Hans.Lambermont@nl.origin-it.com> ntpsweep.

Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <a href="mailto:H.Lambermont@chello.nl">H.Lambermont@chello.nl</a> massive prototyping overhaul.

Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author).
<li>Frank Kardel</li> <a href="mailto:kardel%40ntp.org">Frank Kardel</a> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

<li>Johannes Maximilian Kuehn</li> <a href="mailto:kuehn%40ntp.org">Johannes Maximilian Kuehn</a> Rewrote sntp to comply with NTPv4 specification, tt ntpq saveconfig

<li>William L. Jones</li> <a href="mailto:jones%40hermes.chpc.utexas.edu">William L. Jones</a> RS/6000 AIX modifications, HPUX modifications

<li>Dave Katz</li> <a href="mailto:dka%40cisco.com">Dave Katz</a> (driver 13 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

<li>Craig Leres</li> <a href="mailto:leres%40ee.lbl.gov">Craig Leres</a> 4.4BSD port, ppsclock, Magnavox GPS clock drivers

<li>George Lindholm</li> <a href="mailto:lindholm%40ucs.ubc.ca">George Lindholm</a> SunOS 5.1 port

<li>Louis A. Mamakos</li> <a href="mailto:louie%40ni.umd.edu">Louis A. Mamakos</a> MD5-based authentication

<li>Lars H. Mathiesen</li> <a href="mailto:thorinn%40diku.dk">Lars H. Mathiesen</a> adaptation of foundation code for Version 3 as specified in RFC-1305


<li>David L. Mills</li> <a href="mailto:mills%40udel.edu">David L. Mills</a> Version 4 foundation, precision kernel, clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

<li>Wolfgang Moeller</li> <a href="mailto:moeller%40gwdg1.dnet.gwdg.de">Wolfgang Moeller</a> VMS port

<li>Jeffrey Mogul</li> <a href="mailto:mogul%40pa.dec.com">Jeffrey Mogul</a> ntptrace utility

<li>Tom Moore</li> <a href="mailto:tmoo%40fievel.daytonoh.ncr.com">Tom Moore</a> Bancomm refclock and config/parse code maintenance

<li>David L. Mills</li> <a href="mailto:mills%40udel.edu">David L. Mills</a> Version 4 foundation, precision kernel, clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

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<li>Tom Moore</li> <a href="mailto:tmoo%40fievel.daytonoh.ncr.com">Tom Moore</a> Bancomm refclock and config/parse code maintenance

<li>Rainer Pruy</li> <a href="mailto:Rainer.Pruy%40informatik.uni-erlangen.de">Rainer Pruy</a> USNO clock driver

<li>Ray Schnitzler</li> <a href="mailto:schnitz%40unipress.com">Ray Schnitzler</a> Unixware1 port

<li>Michael Shields</li> <a href="mailto:shields%40tembel.org">Michael Shields</a> USNO clock driver

<li>Jeff Steinman</li> <a href="mailto:jss%40pebbles.jpl.nasa.gov">Jeff Steinman</a> Datum PTS clock driver
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1.1238 jersey-server 1.1.5.1
1.1239 jackson 2.8.11
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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/**
 * Encodes and decodes to and from Base64 notation.
 * Change Log:
 * 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 (set of ints that you "OR" together).
 * v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.5 - 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.
 * v1.3.2 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.3.1 - Fixed OutputStream.flush() so that 'position' is reset.
 * v1.3.0 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.2.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.2.0 - 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 encoded is gzip-compressed and will compress 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 (set of ints that you "OR" together).
 * v1.1.9 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.1.8 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.1.7 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.1.6 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.1.5 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.1.4 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.1.3 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.1.2 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.1.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * v1.1.0 - 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.
 * v1.0.9 - 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.
 * v1.0.8 - 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.
 * v1.0.7 - 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.
 * v1.0.6 - 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.
 * v1.0.5 - 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.
 * v1.0.4 - 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.
 * v1.0.3 - 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.
 * v1.0.2 - 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.
 * v1.0.1 - 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.
 * v1.0.0 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.11 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.10 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.9 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.8 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.7 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.6 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.5 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.4 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.3 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.2 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 * 0.0 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
 */

* @author Robert Harder
* @author rob@iharder.net
* @since 4.2
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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-compiler 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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1.1264 go-yaml 2.2.7
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1.1265 javascript-detect-element-resize 0.5.3

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1.1266 x-net v0.0.0-20210119194325-5f4716e94777

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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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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
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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 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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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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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.

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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
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application-supplied function or table used by this function must
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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.

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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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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.)

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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 
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Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the 
written offer to provide the Corresponding Source. This 
alternative is allowed only occasionally and noncommercially, and 
only if you received the object code with such an offer, in accord 
with subsection 6b.

d) Convey the object code by offering access from a designated 
place (gratis or for a charge), and offer equivalent access to the 
Corresponding Source in the same way through the same place at no 
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clear directions next to the object code saying where to find the 
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1.1280 jetty-servlet 9.4.2.v20170220

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1.1283 httpcomponents-client 4.5
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The End

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abstract: 'Build and install Perl modules'
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- "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
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"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.>
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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
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.

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 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!
#!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 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) = $output =~ /copyright 1987.*\b\d{4,}/>i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}

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1.1296 spring-cloud-vault-config

2.2.3.RELEASE

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* https://github.com/eclipse-ee4j/interceptor-api

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1.1319 undertow-core 2.1.0.Final

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*/
/**
* Encodes and decodes to and from Base64 notation.
* </p>
* <p>
* </p>
* 
* Example:
* </p>
* 
* <code>String encoded = Base64.encode( myByteArray );</code> <br />
* <code>byte[] myByteArray = Base64.decode( encoded );</code>
* 
* 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 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.
* </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>
* 
* 
* <p>
* Change Log:
* </p>
* 
* <ul>
* <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
* {@link #decodeToObject(String, int, ClassLoader)} method.
* 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.
* 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).
* v2.3.1 - Added some similar helper methods to be more efficient
* with memory by not returning a String but just a byte array.
* v2.3 - This is not a drop-in replacement!
* 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:
* Does not break lines, by default. This is to keep in compliance with RFC3548.
* Throws exceptions instead of returning null values. 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.
* Removed all references to System.out, System.err, and the like. Shame on me. All I can say is sorry they were
* ever there.
* Throws NullPointerExceptions and IllegalArgumentExceptions as needed such as when passed arrays are null or
* offsets are invalid.
* 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.
* Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files
* 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

* 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


* 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 (int)s that you "OR" together.

* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).

* 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).

* 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.

* 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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* warranties but 
* with plenty of well-wishing instead! Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> 
* periodically to check for updates or to contribute improvements. 
* </p>
* 
* @author Robert Harder 
* @author rob@iharder.net 
* @version 2.3.7 
*/

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* /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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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/handlers/proxy/mod_cluster/MCMPPool.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
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* /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
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/handlers/proxy/ProxyConnectionPoolConfig.java
*/
jar/io/undertow/server/handlers/proxy/mod_cluster/Node.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/NodeHealthChecker.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/ModClusterContainer.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/NodePingUtil.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/MCMPErrorCode.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/Balancer.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/MCMPConstants.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/NodeConfig.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/MCMPIntInfoUtil.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/Context.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/proxy/ConnectionPoolErrorHandler.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/VirtualHost.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/NodeLbStatus.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/MCMPCfg.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/MCMWebManager.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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 */
/**
 * 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.

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* /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/util/LegacyCookieSupport.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-protocols/ssl/SNIContextMatcher.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-protocols/ssl/SNISSLContext.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-protocols/alpn/DefaultAlpnEngineManager.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/alpn/DefaultAlpnEngineManager.java
* /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

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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/websockets/core/protocol/version07/WebSocket07Channel.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/util/SameThreadExecutor.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-client/ajp/AjpClientExchange.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-client/UndertowClientMessages.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow/server/protocol/http/ALPNBannedCiphers.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow/protocols/protocol/http2/ConnectionErrorException.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow/attribute/BytesSentAttribute.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/protocol/http2/Http2SslSessionInfo.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/predicate/AndPredicate.java
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jar/io/undertow/protocol/http2/Http2RstStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/JDBCLogHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/util/QueryParameterUtils.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/error/FileErrorPageHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/protocol/http/CacheMap.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/session/SessionManager.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/protocol/http/HttpTransferEncoding.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/attribute/RequestCookieAttribute.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/ConfiguredPushHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
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jar/io/undertow/websockets/client/WebSocketClientNegotiation.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/protocols/ajp/AbstractAjpClientStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
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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.
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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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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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

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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.
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

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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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1.1326 objectweb-asm 7.1

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1.1327 util-deprecate 1.0.2

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1.1331 opensaml-xmlsec-api 3.3.0

1.1332 hostname 3.21
1.1332.1 Available under license :

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hostname -- set the host name or show the host/domain name

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1.1335 checker-qual 2.10.0
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package spec

import (
    "encoding/json"
    "testing"

    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

    b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
}

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
}

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package spec

import (  
    "encoding/json"
    
    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name, omitempty"
    URL string `json:"url, omitempty"
}

// UnmarshalJSON hydrates License from json  
func (l *License) UnmarshalJSON(data []byte) error {
if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
    return err
}
return json.Unmarshal(data, &l.VendorExtensible)

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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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)  
under the BSD-license.

The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (common) come with a default 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  

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 Dolic. 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/fr/FrenchLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
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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.

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* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
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* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/aopalliance/aop/Advice.java
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jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java  
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* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
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* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/framework/Pointcut.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/framework/SingletonTargetSource.java
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* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/IntroductionAdvisor.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/support/AbstractBeanFactoryBasedTargetSourceCreator.java
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* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/RawTargetAccess.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/SpringProxy.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/config/AspectComponentDefinition.java
* /opt/cola/permits/1147423869_1616950657.71/0/spring-aop-4-3-7-release-sources-3-jar/org/springframework/aop/config/AspectEntry.java
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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/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/ex_data.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/prime.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/gcd.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/random.c
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/cares/cares/ares_expand_name.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/cares/cares/ares_dns.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/ssl/t1_enc.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/fipsmodule/modes/ctr.c
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bazel/src/crypto/fipsmodule/ec/ec_montgomery.c

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bazel/src/crypto/x509v3/v3_akaeya.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_extku.c
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bazel/src/crypto/x509v3/v3_pku.c
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bazel/src/crypto/x509v3/v3_bcons.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/pkcs8/pkcs8.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_prn.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_v3.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_trs.c
* /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
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/string_view.h
* /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
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_enable_cpp.cc
* /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
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* /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
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/slice/slice_utils.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/work_serializer.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.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/global_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
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/global_config_env.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/global_config_generic.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/iomgr/executor/mpmcqueue.h
* /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_ev_driver_libuv.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/iomgr/poller/eventmanager_libuv.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/pkcs7/pkcs7_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/third_party/fiat/curve25519.c
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/zlib/adler32.c
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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/include/openssl/pkcs12.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/include/openssl/pkcs7.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/include/openssl/ossl_typ.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/include/openssl/opensslv.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/poly1305/poly1305_vec.c
* /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_chacha20poly1305.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/windows.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/pkcs7/pkcs7.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/chacha.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.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/crypto.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/bio/socket_helper.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/bio/urandom.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/urandom.c
* /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_tls.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/hkdf/hkdf.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/cbs.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include.openssl/opensslconf.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/cipher/aead.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/bytestring/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/objects.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/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/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/evp/p_rsa.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/pcy_cache.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_node.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_lib.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/err/err.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/err.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/tasn_dec.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/bio/socket.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/x509_attr.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bio/connect.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/asn1/asn1_lib.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rsa_extra/e_rc4.c
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* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_client_stats.h
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/ev_epoll1_linux.cc
* /opt/cola/permits/1096983131_1601931905.64/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/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/lockfree_event.cc
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/timer_manager.cc
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/lockfree_event.h
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/gethostname.h
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/inlined_vector.h
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/compression/compression_internal.h
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_channel_secure.cc
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/grpc/client_channel/channelz.cc
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/compression/stream_compression.h
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_utils_posix.h
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/ref_counted_ptr.h
* /opt/cola/permits/1096983131_1601931905.64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/fork.cc
gz/src/core/ext/filters/client_channel/retry_throttle.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/include/grpc/support/sync_custom.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/compression/stream_compression_identity.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/channel/status_util.h
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/* zutil.h -- internal interface and configuration of the compression library
 * Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
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 */

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bazel/src/crypto/x509v3/v3_cpons.c
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/* trees.c -- output deflated data using Huffman coding
   * Copyright (C) 1995-2017 Jean-loup Gailly
   * detect_data_type() function provided freely by Cosmin Truta, 2006
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   */

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// CRYPTO_is_confidential_build returns one if the linked version of BoringSSL
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bazel/src/include/openssl/crypto.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_txt_reply.c
* /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-i-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/cfstream_handle.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-i-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/endpoint_cfstream.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-i-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/buffer_list.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-i-1-28-0-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_frame_protector.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-i-1-28-0-gem/data-tar-gz/src/core/ext/filters/http/client_authority_filter.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-i-1-28-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/context_list.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-i-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/local/local_credentials.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-i-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/xds/xds_client_stats.h
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/buffer_list.cc
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_client_cfstream.cc
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_unseal_privacy_integrity_crypter.cc
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel_pool_interface.h
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/iomgr_custom.cc
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/pollset.cc
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_tsi_utils.h
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/dynamic_annotations.h
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/alts/grpc_alts_credentials_options.h
* /opt/cola/permits/1096983131_1601931905.640/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/alts/sec_alts_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/crypto/fipsmodule/ec/p256-x86_64.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/ec_key.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/fipsmodule/ec/wnaf.c
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* Steven Schoch <schoch@sheba.arc.nasa.gov>. */

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/dsa.h
* /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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Crc32.c -- compute the CRC-32 of a data stream
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* 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.
*/

Found in path(s):
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/zlib/crc32.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/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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/* compress.c -- compress a memory buffer
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*/

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/zlib/compress.c
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/src/core/lib/iomgr/socket_mutator.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/stream_map.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/src/core/lib/gprpp/thd_posix.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/include/grpc/support/atm_gcc_sync.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/src/core/lib/security/security_connector/ssl_utils.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/hpack_parser.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_client_posix.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_window_update.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/src/core/lib/security/credentials/oauth2/oauth2_credentials.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/src/core/lib/transport/metadata.cc
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gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/dns_resolver_ares.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/compression/compression.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/transport/connectivity_state.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/transport/chttp2/client/insecure/channel_create.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/include/grpc/impl/codegen/sync_posix.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/tls.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/tls_pthread.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/sockaddr.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/pollset_windows.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr(socket_mutator.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/alloc.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/sync_posix.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/include/grpc/support/sync_windows.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/tls_msvc.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/tls_pthread.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/cpu_linux.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/time_windows.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/uri/uri_parser.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/tls_pthread.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/google_default/google_default_credentials.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/credentials_metadata.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/transport/server_auth_filter.cc
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/sockaddr.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gpr/sync_posix.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/iomgr_internal.h
* /opt/cola/permits/106983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/writing.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/include/grpc/support/alloc.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_byte_buffer.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/ssl_key_share.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/curve25519.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/conf/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/cmac.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bn_extra/bn_asn1.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/refcount_lock.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_pthread.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_win.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_dtx.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_c11.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/bn_extra/bn_asn1.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/refcount_lock.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_pthread.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_win.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_dtx.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_c11.c
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gz/src/core/ext/filters/http/client/http_client_filter.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-
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* /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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 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
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ECC cipher suite support in OpenSSL originally developed by SUN MICROSYSTEMS, INC., and contributed to the OpenSSL project.

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Found in path(s):
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/ssl/ssl_x509.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/ssl/ssl_lib.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/ssl/ssl_cipher.cc

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/setup_once.h
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// Inspired by Daniel J. Bernstein's public domain nistp224 implementation 
// and Adam Langley's public domain 64-bit C implementation of curve25519.

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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/ec/p224-64.c
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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
No license file was found, but licenses were detected in source scan.

/* 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 */
Found in path(s):
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/zlib/deflate.c
  No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/zlib/gzread.c
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/* inftrees.c -- generate Huffman trees for efficient decoding
 * Copyright (C) 1995-2017 Mark Adler
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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/zlib/inftrees.c
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# Subject: CN=GlobalSign Root CA O=GlobalSign nv-sa OU=Root CA
# Label: "GlobalSign Root CA"
# Serial: 4835703278459707669005204


# Label: "Entrust.net Premium 2048 Secure Server CA"
# Serial: 946069240
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
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# Issuer: CN=Baltimore CyberTrust Root O=Baltimore OU=cybertrust
# Subject: CN=Baltimore CyberTrust Root O=Baltimore OU=cybertrust
# Label: "Baltimore CyberTrust Root"
# Serial: 33554617
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-----BEGIN CERTIFICATE-----
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---BEGIN CERTIFICATE-----
MIIEkTCCA3mgAwIBAgIERWtQVDANBgkqhkiG9w0BAQUFADCBSDELMAkGA1UEBhMCVVMx
FjAUBgNVBAoTDUVudHJ1c3QsIEx0ZSxOT3BeMBoGA1UdCIBwggAcAgEAMCQ4 Dagger
# Issuer: CN=Entrust Root Certification Authority O=Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference/c) 2006 Entrust, Inc.
# Subject: CN=Entrust Root Certification Authority O=Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference/c) 2006 Entrust, Inc.
# Label: "Entrust Root Certification Authority"
# Serial: 1164660820
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# Issuer: CN=GeoTrust Global CA O=GeoTrust Inc.
# Subject: CN=GeoTrust Global CA O=GeoTrust Inc.
# Label: "GeoTrust Global CA"
# Serial: 144470
-----END CERTIFICATE-----
# Issuer: CN=QuoVadis Root CA 2 O=QuoVadis Limited
# Subject: CN=QuoVadis Root CA 2 O=QuoVadis Limited
# Label: "QuoVadis Root CA 2"

---END CERTIFICATE---
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-----END CERTIFICATE-----

# Issuer: CN=DigiCert Global Root CA O=DigiCert Inc OU=www.digicert.com
# Subject: CN=DigiCert Global Root CA O=DigiCert Inc OU=www.digicert.com
# Label: "DigiCert Global Root CA"
# Serial: 10947195989520403749518263794454346
# MD5 Fingerprint: 00:b8:00:35:0f:76:50:45:98:00:00:00:00:00:00:00:00:00:00:00
# SHA1 Fingerprint: 00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
# SHA256 Fingerprint: 00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00

-----BEGIN CERTIFICATE-----
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+o0bhJW1s6W3YQg0XqMnoRBxna3iw/nmVG3Kwicz7i7mULKun+gFgFL6Lw8g==
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# Subject: CN=DigiCert Global Root CA O=DigiCert Inc OU=www.digicert.com
# Label: "DigiCert Global Root CA"
# Serial: 10947195989520403749518263794454346
# MD5 Fingerprint: 00:b8:00:35:0f:76:50:45:98:00:00:00:00:00:00:00:00:00:00:00
# SHA1 Fingerprint: 00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
# SHA256 Fingerprint: 00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00

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# Label: "DigiCert High Assurance EV Root CA"
# Serial: 3553400076410547919724730734378100087
# SHA256 Fingerprint:

BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----

# 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: 912997355753335919266965803778155
# MD5 Fingerprint: 41:03:52:dc:0f:f7:50:1b:16:f0:02:8e:ba:6f:45:c5
# SHA256 Fingerprint:

BEGIN CERTIFICATE-----
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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
# MD5 Fingerprint: 5f57c6ee5eb1b6c5f5af4b7d5d1267d4

# SHA256 Fingerprint:

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--- BEGIN CERTIFICATE --

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Open Source Used In MSX SD-WAN Service Pack 4.0.0

--- END CERTIFICATE ---
Open Source Used In MSX SD-WAN Service Pack 4.0.0

# Issuer: CN=GeoTrust Primary Certification Authority O=GeoTrust Inc.
# Subject: CN=GeoTrust Primary Certification Authority O=GeoTrust Inc.
# Label: "GeoTrust Primary Certification Authority"
# Serial: 32798226512569633243180643698192369
# SHA256 Fingerprint:

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-----END CERTIFICATE-----

# Issuer: CN=thawte Primary Root CA O=thawte, Inc. OU=Certification Services Division/(c) 2006 thawte, Inc. - For authorized use only
# Subject: CN=thawte Primary Root CA O=thawte, Inc. OU=Certification Services Division/(c) 2006 thawte, Inc. - For authorized use only
# Label: “thawte Primary Root CA”
# Serial: 69529181992039203566298953787712940909
# SHA256 Fingerprint:

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Open Source Used In MSX SD-WAN Service Pack 4.0.0

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5 O=VeriSign, Inc. OU=VeriSign Trust Network(c) 2006 VeriSign, Inc. - For authorized use only
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5 O=VeriSign, Inc. OU=VeriSign Trust Network(c) 2006 VeriSign, Inc. - For authorized use only
# Label: "VeriSign Class 3 Public Primary Certification Authority - G5"
# Serial: 330374416765808970164719475676101450

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-----END CERTIFICATE-----

--- End Certificate ---

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--- END CERTIFICATE ---
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--- END CERTIFICATE ---

# Issuer: CN=SecureTrust CA O=SecureTrust Corporation
# Subject: CN=SecureTrust CA O=SecureTrust Corporation
# Label: "SecureTrust CA"
# Serial: 171997745891257277883626750714266862032

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--- END CERTIFICATE ---

# Issuer: CN=Secure Global CA O=SecureTrust Corporation
# Subject: CN=Secure Global CA O=SecureTrust Corporation
# Label: "Secure Global CA"
# Serial: 975183616773105154523211948145697859

--- BEGIN CERTIFICATE ---


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Open Source Used In MSX SD-WAN Service Pack 4.0.0

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---END CERTIFICATE-----

# Issuer: CN=Certigna O=Dhimyotis
# Subject: CN=Certigna O=Dhimyotis
# Label: "Certigna"
# Serial: 18364802974209362175

# SHA256 Fingerprint:

---BEGIN CERTIFICATE-----

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# Issuer: CN=Cybertrust Global Root O=Cybertrust, Inc
# Subject: CN=Cybertrust Global Root O=Cybertrust, Inc
# Label: "Cybertrust Global Root"
# Serial: 9043617038467284377484360

---END CERTIFICATE-----

# Issuer: CN=Cybertrust Global Root O=HybridNetworks, Inc
# Subject: CN=HybridNetworks Global Root O=HybridNetworks, Inc
# Label: "HybridNetworks Global Root"
# Serial: 18364802974209362175

# SHA256 Fingerprint:

---BEGIN CERTIFICATE-----

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---END CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: O=Chunghwa Telecom Co., Ltd. OU=ePKI Root Certification Authority
# Subject: O=Chunghwa Telecom Co., Ltd. OU=ePKI Root Certification Authority
# Label: "ePKI Root Certification Authority"
# Serial: 28956088682735189655050259057352760477
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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Open Source Used In MSX SD-WAN Service Pack 4.0.0


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# Issuer: CN=Global Chambersign Root - 2008 O=AC Camerfirma S.A.
# Subject: CN=Global Chambersign Root - 2008 O=AC Camerfirma S.A.
# Label: "Global Chambersign Root - 2008"
# Serial: 14541511773111788494

-----END CERTIFICATE-----


# SHA256 Fingerprint:


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# Issuer: CN=Go Daddy Root Certificate Authority - G2 O=GoDaddy.com, Inc.
# Subject: CN=Go Daddy Root Certificate Authority - G2 O=GoDaddy.com, Inc.
# Subject: CN=AffirmTrust Commercial O=AffirmTrust
# Label: "AffirmTrust Commercial"
# Serial: 860355977964138876
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# Issuer: CN=AffirmTrust Networking O=AffirmTrust
# Subject: CN=AffirmTrust Networking O=AffirmTrust
# Label: "AffirmTrust Networking"
# Serial: 89573828272065475
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# Issuer: CN=AffirmTrust Premium O=AffirmTrust
# Subject: CN=AffirmTrust Premium O=AffirmTrust
# Label: "AffirmTrust Premium"
# Serial: 7893706540734352110
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# Issuer: CN=AffirmTrust Premium ECC O=AffirmTrust
# Subject: CN=AffirmTrust Premium ECC O=AffirmTrust
# Label: "AffirmTrust Premium ECC"
# Serial: 840122407081490260
# SHA256 Fingerprint:

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# Issuer: CN=Certum Trusted Network CA O=Unizeto Technologies S.A. OU=Certum Certification Authority
# Subject: CN=Certum Trusted Network CA O=Unizeto Technologies S.A. OU=Certum Certification Authority
# Label: "Certum Trusted Network CA"
# Serial: 279744
# SHA256 Fingerprint:

BEGIN CERTIFICATE-----
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Open Source Used In MSX SD-WAN Service Pack 4.0.0
# SHA256 Fingerprint:

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# Issuer: CN=BuyPASS Class 2 Root CA O=BuyPASS AS-983163327
# Subject: CN=BuyPASS Class 2 Root CA O=BuyPASS AS-983163327
# Label: "BuyPASS Class 2 Root CA"
# Serial: 2
# SHA1 Fingerprint: 49:0a:75:7d:57:9T
# SHA256 Fingerprint:

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-----END CERTIFICATE-----
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Serial: 10572350602393338211
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Issuer: CN=ACCVRAIZ1 O=ACCV OU=PKI
Subject: CN=ACCVRAIZ1 O=ACCV OU=PKI
Label: "ACCVRAIZ1"
Serial: 6828503384748696800
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| -----BEGIN CERTIFICATE----- |
| MIIFQTCCaymgAwIBAgIcGkCDwQYJKoZIhvcNAQELBQAwUEELMAkGA1UEBhMCbXVfAwIB |
| -----BEGIN CERTIFICATE----- |
| MIIFODCCAgYgAwIBAgIeCgkCaAgYJKoZIhvcNAQELBQAwUEELMAkGA1UEBhMCbXVfAwIB |

| # Issuer: CN=TeliaSonera Root CA v1 O=TeliaSonera |
| # Subject: CN=TeliaSonera Root CA v1 O=TeliaSonera |
| Label: "TeliaSonera Root CA v1" |
| Serial: 19904166741090107964904287217786801558 |

---BEGIN CERTIFICATE----- |
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| # Issuer: CN=TeliaSonera Root CA v1 O=TeliaSonera |
| # Subject: CN=TeliaSonera Root CA v1 O=TeliaSonera |
| Label: "TeliaSonera Root CA v1" |
| Serial: 19904166741090107964904287217786801558 |

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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: 2680907611704614264399595215737242137089235981
# SHA256 Fingerprint:

--- BEGIN CERTIFICATE ---
# Issuer: CN=DigiCert Global Root G3 O=DigiCert Inc OU=www.digicert.com
# Subject: CN=DigiCert Global Root G3 O=DigiCert Inc OU=www.digicert.com
# Label: "DigiCert Global Root G3"
# Serial: 70892446903029329176008333884364146

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-----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: 7451005589773777930084869016614236

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-----END CERTIFICATE-----

Open Source Used In MSX SD-WAN Service Pack 4.0.0 11741
Open Source Used In MSX SD-WAN Service Pack 4.0.0  11745

---END CERTIFICATE-----

# Issuer: CN=GlobalSign O=GlobalSign OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign O=GlobalSign OU=GlobalSign ECC Root CA - R5
# Label: "GlobalSign ECC Root CA - R5"
# Serial: 32785792099990507226680698011560947931244
# MD5 Fingerprint: 9f:ad:3b:1c:02:1e:8a:ba:17:74:38:81:0c:a2:bc:08
# SHA256 Fingerprint:

---END CERTIFICATE-----

# Issuer: CN=Staat der Nederlanden Root CA - G3 O=Staat der Nederlanden
# Subject: CN=Staat der Nederlanden Root CA - G3 O=Staat der Nederlanden
# Label: "Staat der Nederlanden Root CA - G3"
# Serial: 10003001
# SHA256 Fingerprint:
Open Source Used In MSX SD-WAN Service Pack 4.0.0

--- END CERTIFICATE ---

# Issuer: CN=IdenTrust Public Sector Root CA 1 O=IdenTrust
# Subject: CN=IdenTrust Public Sector Root CA 1
# Label: "IdenTrust Public Sector Root CA 1"
# Serial: 1329882103496432429052197615684393698
# SHA256 Fingerprint:


-----BEGIN CERTIFICATE-----
Label: "SZAFIR ROOT CA2"

# Serial: 35704303476718691421772734458738674337755829629


# SHA256 Fingerprint:

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-----END CERTIFICATE-----

# Issuer: CN=Certum Trusted Network CA 2 O=Unizeto Technologies S.A. OU=Certum Certification Authority
# Subject: CN=Certum Trusted Network CA 2 O=Unizeto Technologies S.A. OU=Certum Certification Authority

Label: "Certum Trusted Network CA 2"

# Serial: 4449799000172045830094617643753512596969


# SHA256 Fingerprint:

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-----END CERTIFICATE-----

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# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015 O=Hellenic Academic and Research Institutions Cert. Authority
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# Serial: 0

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# Serial: 0

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MIICwzCCAkqgAwIBAgIBADAKBggqhkjOPQQDAjCBqjELMAkGA1UEBhMCR1IxDzAN
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DVQQDIEJNMQswCQYDVQQIEwJUZTVDBamuMB4wHwYDVQQDIEJNMQswCQYDVQQEIAZ

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BEGIN CERTIFICATE-----
MIIFCgCAuAgIBAgIXZXQmNjAXBgNVBAYTAkVTMREwDwYDVQQKDAhGTk1ULVJDTTEZMBcGA1UEcwwQQUMgUlFK
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# Subject: CN=Amazon Root CA 1 O=Amazon
# Label: "Amazon Root CA 1"
# Serial: 14326697891655856878034712317230054538369994

-----BEGIN CERTIFICATE-----
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b21wNzU2MDMwMDIwMD5jNTMwNTExMDMwMDMwMDMwMDMwMDMwMDMwMDMwMDMw

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# SHA1 Fingerprint: b7:ab:05:da:09:0a:1d:5c:ce:59
# SHA256 Fingerprint: b7:ab:05:da:09:0a:1d:5c:ce:59

---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: 58294871064250600014504
-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: CN=Hongkong Post Root CA 3 O=Hongkong Post
# Subject: CN=Hongkong Post Root CA 3 O=Hongkong Post
# Label: "Hongkong Post Root CA 3"
# Serial: 46170865288971385588821144162979347873371280284
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-----END CERTIFICATE-----

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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/ec/p256-x86_64-table.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/dsa/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/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/ssl/tls_record.cc
  */opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_all.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/pool/pool.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/deterministic.c
  * /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pool/internal.h
  * /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/tipsmodule/modes/polyval.c
  * /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/curve25519/spake25519.c
  * /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/pool.h
  * /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.c
  * /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/obj_mac.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-linux.c
  * /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/tls13_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/bytestring/asn1_compat.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_pcia.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/aes/key_wrap.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-1-28-0-gem/data-target-gz/include/grpc/impl/codegen/grpc_types.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-target-gz/third_party/cares/cares/ares_timeout.c
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* /opt/cola/permits/1096983131_1601931905/64/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/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/mpscq.cc
* /opt/cola/permits/1096983131_1601931905/64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/error.cc
* /opt/cola/permits/1096983131_1601931905/64/grpc-1-28-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_event_thread.cc
* /opt/cola/permits/1096983131_1601931905/64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/unix_sockets_posix.cc
* /opt/cola/permits/1096983131_1601931905/64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/transport/bdp_estimator.cc
* /opt/cola/permits/1096983131_1601931905/64/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/pollset_uv.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_grpc_imports.generated.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_uv.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/resource_quota.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/resource_quota.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/sockaddr_utils.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/channel/handshaker_registry.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/iam/iam_credentials.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/strings/escaping.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/container/internal/inlined_vector.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/meta/type_traits.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/strings/numbers.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/strings/strip.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/base/internal/inlined_variable.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/base/internal/scheduling_mode.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/base/internal/per_thread_tls.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/base/internal/thread_identity.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/strings/internal/escaping.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/strings/internal/str_format/extension.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-cpp/absl/base/internal/raw_logging.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/third_party/abseil-
cpp/absl/base/internal/thread_annotations.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/charconv_parse.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/match.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/options.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/string_view.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/throw_delegate.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/spinlock.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/string_view.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/ostringstream.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/spinlock_win32.inc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/cycleclock.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/charconv.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/memory/memory.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/const_init.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/substitute.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/inlined_vector.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/charconv.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/stl_type_traits.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/char_map.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/charconv_bigint.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/str_replace.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/spinlock_wait.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/memutil.h
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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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1.1350 pciutils 3.5.6

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* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/password/spec/OneTimePasswordSpec.java
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* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/password/spec/BasicPasswordSpecEncoding.java

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* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-jar/org/wildfly/security/keystore/PasswordEntry.java

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* /opt/ws_local/PERMITS_SQL/1094802427_1601321899.51/0/wildfly-elytron-credential-1-11-4-final-sources-
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1.1375 kryo-shaded 3.0.3

1.1376 httpcore-nio 4.4.5
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          <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
          <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
          <li><a href="/travel/">Travel Assistance</a></li>
          <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
          <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
          <li><a href="/memorials/">Memorials</a></li>
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          <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
          <li><a href="/foundation/marks/">Trademark Policy</a></li>
          <li><a href="/foundation/contact.html">Contacts</a></li>
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          <li><a href="/security/">Security</a></li>
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1.1378 moment-timezone 0.5.13

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1].add(r);return{wnd:e,points:t}}),n.prototype._getBeta=function(){return null},n.prototype.dblp=function(e){for(var t=t,this.i=0;i<e;i++)t.dbl();return t},["/util":15,"bn.js":16],3:[function(e,t,i){"use strict";var r=e("/util"),d=e("bn.js"),f=e("inherits"),n=(e="/base"),a=r.assert;function s(e){this.twisted=1!=(0|e.a),this.mOneA=this.twisted&-1==(0|e.a),this.extended=this.mOneA,n.call(this,"edwards"),e.a=new d(e.a,16).umod(this.red.m), this.a=ate(this.a).toRed(this.red),this.z=new d(e.c,16).isOdd() new d(e.c,16).redNeg(),this.z=0==this.z.cmpn(1),this.oneC=1=}(0|e.c))function c(e,t,i){n.BasePoint.call(this,e,"projective"),null===null===null===null===null?(this.x=this.curve.zero,this.y=this.curve.y этому one this.z=0:0==this.z.cmpn(0)):(this.x=x.new d(t,16),this.y=new d(t,16).redSub(this.x.redSqr()).redIAdd(this.t.redSqr()).redISub(this.x.redSqr()).redISubthis.x.redSqr()).redIAdd(this.t.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr()).redISubthis.x.redSqr(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null
Open Source Used In MSX SD-WAN Service Pack 4.0.0

let e.isInfinity() {
  if (result !== undefined) {
    return {
      result: undefined
    }
  }
  return {
    result: !isInfinity()
  }
}

let promise = new Promise((resolve, reject) => {
  setTimeout(() => {
    resolve(result)
  }, 1000)
})

let xhr = new XMLHttpRequest()
xhr.onreadystatechange = function() {
  if (xhr.readyState === 4) {
    if (xhr.status === 200) {
      let data = JSON.parse(xhr.responseText)
      console.log(data)
    }
  }
}
xhr.open('GET', 'https://example.com/api/data', true)
xhr.send()
ee=(Math.imul(B,L)+(J>>>13)|0)+(N>>>26)|0,N&=67108863,d[0]=X,d[1]=G,d[2]=n,d[3]=p,d[4]=A,d[5]=f,d[6]=r,d[7]=e,d[8]=t,d[9]=a,d[10]=d,d[12]=m,d[13]=y,d[14]=S,d[15]=x,d[16]=q,d[17]=P,d[18]=N,0!=ee&&&d[19]=ee,i.length++,i);function a(e,i) {return(new s).mulp(e,i)}function s(e,i){this.x=e,this.y=t}Math.imul||(d=f),m.prototype.mulTo=function(e,i){for(var r=0,f=0,d=0;d<i.length-1;d++)for(var f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d++)for(var r=0,f=0,d=0;d<i.length-1;d+)
Open Source Used In MSX SD-WAN Service Pack 4.0.0  12003
self)self.crypto&&self.crypto.getRandomValues?f.prototype._rand=function(e){e=new Uint8Array(e);return
self.crypto.getRandomValues(e),e}:self.msCrypto&&self.msCrypto.getRandomValues?f.prototype._rand=function(
e){e=new Uint8Array(e);return self.msCrypto.getRandomValues(e),e}:"object"==typeof
window&&(f.prototype._rand=function(){throw new Error("Not implemented yet")});else try{var
d=e("crypto");if("function"!=typeof d.randomBytes)throw new Error("Not
supported");f.prototype._rand=function(e){return
d.randomBytes(e)}}catch(e){}},{crypto:18}],18:[function(e,t,i){},{}],19:[function(e,t,i){i.utils=e("./hash/utils"),i.co
mmon=e("./hash/common"),i.sha=e("./hash/sha"),i.ripemd=e("./hash/ripemd"),i.hmac=e("./hash/hmac"),i.sha1=i.sha
.sha1,i.sha256=i.sha.sha256,i.sha224=i.sha.sha224,i.sha384=i.sha.sha384,i.sha512=i.sha.sha512,i.ripemd160=i.ripe
md.ripemd160},{"./hash/common":20,"./hash/hmac":21,"./hash/ripemd":22,"./hash/sha":23,"./hash/utils":30}],20:[fu
nction(e,t,i){"use strict";var r=e("./utils"),f=e("minimalistic-assert");function
d(){this.pending=null,this.pendingTotal=0,this.blockSize=this.constructor.blockSize,this.outSize=this.constructor.o
utSize,this.hmacStrength=this.constructor.hmacStrength,this.padLength=this.constructor.padLength/8,this.endian="
big",this._delta8=this.blockSize/8,this._delta32=this.blockSize/32}(i.BlockHash=d).prototype.update=function(e,t){
if(e=r.toArray(e,t),this.pending?this.pending=this.pending.concat(e):this.pending=e,this.pendingTotal+=e.length,this
.pending.length>=this._delta8){t=(e=this.pending).length%this._delta8;this.pending=e.slice(e.lengtht,e.length),0===this.pending.length&&(this.pending=null),e=r.join32(e,0,e.length-t,this.endian);for(var
i=0;i<e.length;i+=this._delta32)this._update(e,i,i+this._delta32)}return this},d.prototype.digest=function(e){return
this.update(this._pad()),f(null===this.pending),this._digest(e)},d.prototype._pad=function(){var
e=this.pendingTotal,t=this._delta8,i=t-(e+this.padLength)%t,r=new Array(i+this.padLength);r[0]=128;for(var
f=1;f<i;f++)r[f]=0;if(e<<=3,"big"===this.endian){for(var
d=8;d<this.padLength;d++)r[f++]=0;r[f++]=0,r[f++]=0,r[f++]=0,r[f++]=0,r[f++]=e>>>24&255,r[f++]=e>>>16&25
5,r[f++]=e>>>8&255,r[f++]=255&e}else
for(r[f++]=255&e,r[f++]=e>>>8&255,r[f++]=e>>>16&255,r[f++]=e>>>24&255,r[f++]=0,r[f++]=0,r[f++]=0,r[f++
]=0,d=8;d<this.padLength;d++)r[f++]=0;return r}},{"./utils":30,"minimalistic-assert":33}],21:[function(e,t,i){"use
strict";var r=e("./utils"),f=e("minimalistic-assert");function d(e,t,i){if(!(this instanceof d))return new
d(e,t,i);this.Hash=e,this.blockSize=e.blockSize/8,this.outSize=e.outSize/8,this.inner=null,this.outer=null,this._init(r.t
oArray(t,i))}(t.exports=d).prototype._init=function(e){e.length>this.blockSize&&(e=(new
this.Hash).update(e).digest()),f(e.length<=this.blockSize);for(var
t=e.length;t<this.blockSize;t++)e.push(0);for(t=0;t<e.length;t++)e[t]^=54;for(this.inner=(new
this.Hash).update(e),t=0;t<e.length;t++)e[t]^=106;this.outer=(new
this.Hash).update(e)},d.prototype.update=function(e,t){return
this.inner.update(e,t),this},d.prototype.digest=function(e){return
this.outer.update(this.inner.digest()),this.outer.digest(e)}},{"./utils":30,"minimalisticassert":33}],22:[function(e,t,i){"use strict";var
r=e("./utils"),e=e("./common"),p=r.rotl32,m=r.sum32,v=r.sum32_3,g=r.sum32_4,f=e.BlockHash;function
d(){if(!(this instanceof d))return new
d;f.call(this),this.h=[1732584193,4023233417,2562383102,271733878,3285377520],this.endian="little"}function
y(e,t,i,r){return
e<=15?t^i^r:e<=31?t&i|~t&r:e<=47?(t|~i)^r:e<=63?t&r|i&~r:t^(i|~r)}r.inherits(d,f),(i.ripemd160=d).blockSize=512,
d.outSize=160,d.hmacStrength=192,d.padLength=64,d.prototype._update=function(e,t){for(var
i,r=h=this.h[0],f=l=this.h[1],d=b=this.h[2],n=u=this.h[3],a=o=this.h[4],s=0;s<80;s++)var
c=m(p(g(h,y(s,l,b,u),e[M[s]+t],(i=s)<=15?0:i<=31?1518500249:i<=47?1859775393:i<=63?2400959708:284085383
8),S[s]),o),h=o,o=u,u=p(b,10),b=l,l=c,c=m(p(g(r,y(79s,f,d,n),e[w[s]+t],(i=s)<=15?1352829926:i<=31?1548603684:i<=47?1836072691:i<=63?2053994217:0),_[s]),a),r=a
,a=n,n=p(d,10),d=f,f=c;c=v(this.h[1],b,n),this.h[1]=v(this.h[2],u,a),this.h[2]=v(this.h[3],o,r),this.h[3]=v(this.h[4],h,f)
,this.h[4]=v(this.h[0],l,d),this.h[0]=c},d.prototype._digest=function(e){return"hex"===e?r.toHex32(this.h,"little"):r.
split32(this.h,"little")};var

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n.prototype._hmac = function() { return new r.hmac(this.hash, this.K); }, n.prototype._update = function(e) { var t = this._hmac().update(this.V).update([0]); e && (t = this._update(e)); this.K = this._hmac().update(this.V).digest(), e && (this.K = this._hmac().update(this.V).update([1]).update(e).digest(), this.V = this._hmac().update(this.V).digest()); n.prototype.reseed = function(e, i, r) {
    "string" == typeof e && (i = r, r = null), this.V = this._hmac().update(this.V).digest(), r = r.concat(this.V, this._hmac().update(this.V).digest());
    e && (this.K = this._hmac().update(this.V).update([1]).update(e).digest(), this.V = this._hmac().update(this.V).digest());
}, n.prototype.reseed = function(e, t, i, r) {
    f = [ ]; f.length < e, this.V = this._hmac().update(this.V).digest(), f = f.concat(0, e); return this._update(i), this._reseed += d.encode(t, r) || [ ]; }, "hash.js": 19, "minimalistic-assert": 33, "minimalistic-crypto-utils": 34 ];
}, 32: [function(e, t, i) {
    "function" == typeof Object.create ? t.exports = function(e, t) {
        t && (e.super_ = t, e.prototype = Object.create(t.prototype, { constructor: { value: e, enumerable: !1, writable: !0, configurable: !0 } })), e.constructor = e
    } : t.exports = function(e, t) {
        var i; t && (e.super_ = t, e.prototype = new i);
        e.constructor = e
    }}, {}], 33: [function(e, t, i) {
    function r(e, t) {
        if (!e) throw new Error(t || "Assertion failed")
    }
    t.exports = r
}, {}], 34: [function(e, t, i) {
    "use strict";
    function r(e) {
        return 1 === e.length ? "0" + e : e
    }
    function f(e) {
        for (var t = "", i = 0; i < e.length; i++) t += r(e[i].toString(16)); return t
    }
    i.toArray = function(e, t) {
        if (Array.isArray(e)) return e.slice();
        if (null == e) return [ ];
        var i = [], r = 0;
        if ("hex" === t) {
            (e = e.replace(/[^a-z0-9\+\=]/gi, "")), len = e.length % 2 !== 0 && (e += "=", 2); for (r = 0, t = 0; r < e.length; r++) t += e.charCodeAt(r) >> 2;
            return f(e)
        }
        if ("binary" === t) return f(e)
        if ("base64" === t) return f(e)
        return f(e)
    }, i.zero2 = r, i.toHex = f, i.encode = function(e, t) {
        return "hex" === t ? f(e) : e
    }, {}], 35: [function(e, t, i) {
}, {}]
}, 1]));

Found in path(s):
* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1.tar.gz/indutny-elliptic-956793a/dist/elliptic.min.js
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1.tar.gz/indutny-elliptic-956793a/dist/elliptic.js
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Found in path(s):
* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1-tar-gz/indutny-elliptic-956793a/benchmarks/deps/secp256k1.js

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* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1-tar-gz/indutny-elliptic-956793a/README.md

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/**************************************************
* Curve 25519-based cryptography collection.
* 
* EC Diffie-Hellman (ECDH) based on Curve25519 and digital signatures (EdDSA)
* based on Ed25519.
1.1380 console-setup 1.108ubuntu15.5

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== u_vga16.bdf

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8x13B.bdf 8x13Bc.bdf 8x13.bdf 8x13c.bdf 8x13-IL2.bdf 8x13O.bdf
9x15B.bdf 9x15Bc.bdf 9x15.bdf 9x15c.bdf 9x15B-IL2.bdf 9x15-IL2.bdf
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== 8x16-IL2.bdf 8x16c.bdf

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== unifont.bdf

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1.1403 bootstrap-sass 3.2.0

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1.1404 spring-security-jwt 1.0.11.RELEASE

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* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
  jar/org/springframework/security/jwt/BinaryFormat.java
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jar/org/springframework/security/jwt/JwtAlgorithms.java
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jar/org/springframework/security/jwt/crypto/sign/Signer.java
* /opt/cola/permits/1136827867_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-
jar/org/springframework/security/jwt/crypto/sign/RsaVerifier.java
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jar/org/springframework/security/jwt/Jwt.java
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jar/org/springframework/security/jwt/JwtHelper.java

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/**
 * Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
 *
 * @author Luke Taylor
 */

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1.1405 netty-codec 4.1.22.Final
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* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
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* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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  jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
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  jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
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  jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/compression/LineSeparator.java
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/**
**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/"&gt;Robert Harder's Public Domain
* Base64 Encoder/Decoder&lt;/a&gt;.
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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
* `*/`

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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.
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.

```
lengthFieldOffset = 0
lengthFieldLength = 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" |
+--------+----------------+      +--------+----------------+

Because we can get the length of the content by calling `ByteBuf.readableBytes()`, you might want to strip the length field by specifying `initialBytesToStrip`. In this example, we specified `2`, that is same with the length of the length field, to strip the first two bytes.

```
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = 0
initialBytesToStrip = 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" |
+--------+----------------+      +----------------+

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 |
  * | 0x0000E | "HELLO, WORLD" | 0x0000E | "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>
*
* <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>    = <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 |----->| 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</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>
* 
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +----------------+----------------+      +----------------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+----------------+
Found in path(s):
* /opt/cola/permits/1111556702_1606934130.73/0/netty-codec-4-1-22-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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1.1413 netty-codec 4.1.13.FINAL

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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 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
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e) Verify that the user has already received a copy of these
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the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* /opt/ws_local/PERMITS_SQL/1050289327_1591719213.08/0/typetools-0-6-2-sources-jar/net/jodah/typetools/TypeResolver.java

1.1446 angular-dragdrop 1.0.13
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1.1447 spring-context-support

4.3.7.RELEASE

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* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/ui/velocity/VelocityEngineUtils.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/ui/velocity/VelocityEngineFactory.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/jcache/interceptor/JCacheOperationSource.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/jcache/interceptor/JCacheOperationSourcePointcut.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/ehcache/EhCacheManagerUtils.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheKeyOperation.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/jcache/interceptor/JCacheInterceptor.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/jcache/interceptor/CacheResultOperation.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/jcache/interceptor/JCacheConfigurerSupport.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheKeyOperation.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/ui/jasperreports/JasperReportsUtils.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/mail/javamail/ConfigurableMimeFileMap.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/jcache/interceptor/AbstractKeyCacheInterceptor.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/mail/javamail/MimeMailMessage.java
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* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/ui/freemarker/SpringTemplateLoader.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
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* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java

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* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
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jar/org/springframework/cache/jcache/interceptor/DefaultCacheInvocationContext.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-
jar/org/springframework/cache/jcache/interceptor/JCacheAspectSupport.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-
jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-
jar/org/springframework/cache/jcache/interceptor/CacheResultInterceptor.java

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# Defaults for the Java Activation Framework
# Additional extensions registered in this file:
# text/plainjava c c++ pl cc h
#
# text/htmlhtml htm HTML HTM
text/plaintxt text TXT TEXT java c c++ pl cc h
# Additional file types adapted from
# http://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
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# TEXT TYPES

text/x-speech
text/css
text/csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap

# X-Windows pixelmap (8-bit color)
image/x-xpixmap

# Portable Network Graphics
image/x-png

# Image Exchange Format (RFC 1314)
image/ief

# JPEG
image/jpeg

# RGB
image/rbg
# Group III Fax (RFC 1494)
image/g3faxg3f
# X Windowdump format
image/x-xwindowdumpxwd
# Macintosh PICT format
image/x-pictpict
# PPM (UNIX PPM package)
image/x-portable-pixmapppm
# PGM (UNIX PPM package)
image/x-portable-graymappgm
# PBM (UNIX PPM package)
image/x-portable-bitmappbm
# PNM (UNIX PPM package)
image/x-portable-anympnm
# Microsoft Windows bitmap
image/x-ms-bmpbmp
# CMU raster
image/x-cmu-rasterras
# Kodak Photo-CD
image/x-photo-cdpdcd
# Computer Graphics Metafile
image/cgmcgmc
# CALS Type 1 or 2
image/x-calsmil cal
# Fractal Image Format (Iterated Systems)
image/fiffiff
# QuickSilver active image (Micrografx)
image/x-mgx-dsdfsdf
# CMX vector image (Corel)
image/x-cmxcmx
# Wavelet-compressed (Summus)
image/waveletwi
# AutoCad Drawing (SoftSource)
image/vnd.dwgddwg
# AutoCad DXF file (SoftSource)
image/vnd.dxffdx
# Simple Vector Format (SoftSource)
image/vnd.svfsvf

# AUDIO/VOICE/MUSIC RELATED TYPES

# """basic"" audio - 8-bit u-law PCM"
audio/basicau snd
# Macintosh audio format (AIpple)
audio/x-aiffai fai ff aif c
# Microsoft audio
audio/x-wavwav
# MPEG audio
audio/x-mpegma abs mpega  # MPEG-2 audio
audio/x-mpeg-2mp2a mpa2  # compressed speech (Echo Speech Corp.)
audio/echospeeches
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio ram
# MIDI music data
x-music/x-midimidi
# Koan music data (SSeyo)
application/vnd.koan
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpegmpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideoavi
# SGI Movie format
video/x-sgi-moviemovie
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscriptai eps ps
# Microsoft Rich Text Format
application/rtftrtf
# Adobe Acrobat PDF
application/pdf

# Maker Interchange Format (FrameMaker)
application/vnd.mif

# Troff document
application/x-troff tr roff

# Troff document with MAN macros
application/x-troff-man man

# Troff document with ME macros
application/x-troff-meme

# Troff document with MS macros
application/x-troff-msms

# LaTeX document
application/x-latex

# Tex/LateX document
application/x-tex

# GNU TexInfo document
application/x-texinfo texi

# TeX dvi format
application/x-dvidvi

# MS word document
application/msword DOC

# Office Document Architecture
application/odaoda

# Envoy Document
application/envoyevy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
gtar

# 4.3BSD tar format
application/x-tar
tar

# POSIX tar format
application/x-ustar
ustar

# Old CPIO format
application/x-hcpio
hcpio

# POSIX CPIO format
application/x-epio
cpio

# UNIX sh shell archive
application/x-shar
cpio

# DOS/PC - Pkzipped archive
application/zip
zip

# Macintosh Binhexed archive
application/mac-binhex
binhex

# Macintosh Stuffit Archive
application/x-stuffit
stuffit

# Fractal Image Format
application/fractalsfif
# "Binary UUencoded"
application/octet-stream uu
# PC executable
application/octet-stream exe
# "WAIS ""sources"
application/x-wais-sources src
application/hdf hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

text/javascript js mocha
# UNIX bourne shell program
application/x-sh sh
# UNIX c-shell program
application/x-csh csh
# Perl program
application/x-perl pl
# Tcl (Tool Control Language) program
application/x-tcl tcl

# ANIMATION/MULTIMEDIA

application/futuresplash spl
application/mbedlet mbd
application/x-rad-powermedia rad

# PRESENTATION

application/mspowerpoint ppz
application/x-asap asp
application/astound asn

# SPECIAL EMBEDDED OBJECT

application/x-olescript axs
application/x-oleobject ods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com
# Pointcast news data (Pointcast)
application/x-pcnpcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp
# SourceView document (Dataware Electronics)
application/vnd.svd svd
# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/ccv ccv
# Spreadsheets (Visual Components)
workbook/formulaonvts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrm
# WIRL - VRML data (VREAM)
application/x-vreamvrw
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr
# WebActive 3d data (Plastic Thought)
x-world/x-wvrrwvr
# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmsf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematicama
# Computational meshes for numerical simulations
x-model/x-meshmsh
# Vis5D 5-dimensional data
application/vis5dv5d
# IGES models -- CAD/CAM (CGM) data
application/igesigs
# Autocad WHIP vector drawings
drawing/x-dwfdwf

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jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactory.java
*/
* /opt/cola/permits/1147423382_1616950718.48/0/spring-context-support-4-3-7-release-sources-3-
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1.1449 swagger-integration 1.3.12

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Manifest-Version: 1.0
Automatic-Module-Name: io.swagger.v3.oas.integration
Bnd-LastModified: 1573915108299
Build-Jdk: 1.8.0_151
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

1.1450 weld-ejb 3.1.3.Final

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**1.1459 xz 5.2.4 1**

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Upstream-Name: XZ Utils

Upstream-Contact:
Lasse Collin <lasse.collin@tukaani.org>
https://tukaani.org/xz/lists.html

Source:
https://tukaani.org/xz
https://git.tukaani.org/xz.git

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Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[..]

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     visibility.m4 serial 1 (gettext-0.15),
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1461 libnl3 3.4.0

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
        "2 clause bsd", "simplified bsd license"},
        Header: "All rights reserved."
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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: "All rights reserved.

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Licenses["gpl2"] = License{
Name: "GNU General Public License 2.0",
PossibleMatches: [string("gpl2", "gnu gpl2", "gplv2")],
Header: '
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package cmd

import (...
    "strings"
    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)
// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{
        "None",
        []string{
            "none",
            "false"
        },
        "",
        ""
    }

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }
    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{
            Header: viper.GetString("license.header"),
            Text: viper.GetString("license.text")
        }
    }
    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
    // If user didn't set any license, use Apache 2.0 by default.
}
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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(at your option) any later version.

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`

`package cmd

func initLgpl() {
Licenses["lgpl"] = License{
Name: "GNU Lesser General Public License",
PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as published by
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package cmd

func initAgpl() {
 Licenses["agpl"] = License{
 Name:            "GNU Affero General Public License",
 PossibleMatches: []string{"agpl", "affer gpl", "gnu agpl"),
 Header: "
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package cmd

func initApache2() {
    licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `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:

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1.1471 elasticsearch-scripting-painless-spi
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* Detect whether zlib is new enough in configure script.  
* Fixes for Solaris 10 32/64-bit confusion.
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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
* Clean up some Java warnings.  
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* Added atomicops for Solaris.
Andrew Paprocki <andrew@ishiboo.com>  
* Fixed minor IBM xIC compiler build issues  
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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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 * Returns confidentiality override flag.
 * @return true iff the encoder cannot provide confidentiality
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jar/io/netty/handler/codec/DefaultHeaders.java
*/
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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jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /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/serialization/ObjectEncoderOutputStream.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/JZlibEncoder.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/compression/ZlibUtil.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/marshalling/LimitingByteInput.java

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/netty-codec-4-1-50-final-sources-1.jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.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/HeadersUtils.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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/**
 * Utility class for [ @link ByteBuf] that encodes and decodes to and from
 * <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
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 */

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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/DateFormatter.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
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.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-
  jar/io/netty/handler/codec/compression/JdkZlibDecoder.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 examples 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   = 0
*lengthFieldLength   = 2
*lengthAdjustment    = 0
*initialBytesToStrip = 0 (= do not strip header)
*</pre>
*
*BEFORE DECODE (14 bytes)     AFTER DECODE (14 bytes)
*+--------+----------------+----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
*+--------+----------------+----->| Length | Actual Content |
*+--------+----------------+----->| Length | Actual Content |
* </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
*initialBytesToStrip = 2 (= the length of the Length field)
*</pre>
*
*BEFORE DECODE (14 bytes)     AFTER DECODE (12 bytes)
*+--------+----------------+----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |
*+--------+----------------+----->| Actual Content |
*+--------+----------------+----->| Actual Content |
* </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
* \texttt{lengthAdjustment}. Because the length value in this example message
* is always greater than the body length by \texttt{2}, we specify \texttt{-2} for
* compensation.
* \begin{verbatim}
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* \texttt{lengthAdjustment} = -2 (\texttt{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" |
* +--------+----------------+      +--------+----------------+
* \end{verbatim}
*
* \textbf{3 bytes length field at the end of 5 bytes header, do not strip header}
* \textbf{\textless h3>}
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \texttt{lengthAdjustment} is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* \begin{verbatim}
* \textbf{lengthFieldOffset}   = \textbf{2} (= \texttt{length of Header 1})
* \textbf{lengthFieldLength}   = \textbf{3}
* \texttt{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" |
* +----------+----------+----------------+      +----------+----------+----------------+
* \end{verbatim}
*
* \textbf{3 bytes length field at the beginning of 5 bytes header, do not strip header}
* \textbf{\textless 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 \texttt{lengthAdjustment} so that the decoder counts the extra
* header into the frame length calculation.
* \begin{verbatim}
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* \end{verbatim}
* 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" |
  +----------+----------+----------------+      +----------+----------+----------------+

* </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
  * lengthAdjustment   = 1 (= the length of HDR2)
  * initialBytesToStrip = 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" |
    +------|--------+------|----------------+      +------|----------------+
  *

* 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
  * lengthAdjustment   = -3 (= the length of HDR1 + LEN, negative)
  * initialBytesToStrip = 3

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* 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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/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables 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/base64/Base64Dialect.java
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* /opt/cola/permits/1110674989_1606843959.62/0/hornetq-jms-client-2-4-7-final-sources-3-jar/org/hornetq/api/jms/management/JMSManagementHelper.java
* /opt/cola/permits/1110674989_1606843959.62/0/hornetq-jms-client-2-4-7-final-sources-3-jar/org/hornetq/api/jms/management/DestinationControl.java
* /opt/cola/permits/1110674989_1606843959.62/0/hornetq-jms-client-2-4-7-final-sources-3-jar/org/hornetq/api/jms/management/JMSConsumerInfo.java
* /opt/cola/permits/1110674989_1606843959.62/0/hornetq-jms-client-2-4-7-final-sources-3-jar/org/hornetq/api/jms/management/JMSClusterManagement.java

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1.1503 javassist 3.23.2-GA

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* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java

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* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/expr/Cast.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/tools/rmi/StubGenerator.java
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* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/serialVersionUID.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/serialVersionUIDImpl.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/tools/reflect/AccessFlag.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1110738901_1606847133.33/0/javassist-3-23-2-ga-sources-1-
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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

------

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

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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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL/GPLv2.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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1.1511 jaxen 1.1.6
1.1511.1 Available under license:

    /*
     $Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $
     
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    */

1.1512 jansi-native 1.6

1.1513 netty-handler-proxy 4.1.48.Final
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* /opt/ws_local/PERMITS_SQL/1068448974_1594389071.24/0/netty-handler-proxy-4-1-48-final-sources-1-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
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* /opt/ws_local/PERMITS_SQL/1068448974_1594389071.24/0/netty-handler-proxy-4-1-48-final-sources-1-jar/io/netty/handler/proxy/ProxyHandler.java

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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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1.1532 sshpass 1.05

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package spec

import (
    "encoding/json"
    "testing"

    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}

const licenseJSON = `{
"name": "the name",
"url": "the url",
"x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

    // const licenseYAML = "name: the name\nurl: the url"

    b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
}

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
}

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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {


if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
    return err
}
return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.1554 zlib 1.2.7

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1.1555 python-isodate 0.6.0

1.1556 lz4-java 1.2.0

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1.1557 jackson-databind 2.9.10.4

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1.1558 cglib 3.3.0

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- analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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ejackson-jq
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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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.salaranta@iki.fi>.

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Janino - An embedded Java[TM] compiler

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boilerpipe

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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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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);
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) {
               for (String s : val) {
               }
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;
});
}
}
return p;
}

/**
 * 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);
} 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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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

------

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

-----

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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*/opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/AbstractEventLoop.java
*/opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
*/opt(ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java
*/opt(ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelFactory.java
*/opt(ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/PendingWriteQueue.java

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  * /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
  * /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/SelectStrategy.java
  * /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
  * /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/socket/DuplexChannel.java
  * /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
  * /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
  * /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
  * /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
  * /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelInboundInvoker.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/FailedChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/FileRegion.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /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/ChannelPipelineException.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket DatagramPacket.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/local/package-info.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/nio/NioEventLoop.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/AbstractChannelHandlerContext.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/socket/package-info.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/DefaultChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/bootstrap/ServerBootstrap.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/DefaultChannelPipeline.java

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jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
jar/io/netty/channel/DefaultChannelId.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
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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/oio/DefaultOioSocketChannelConfig.java
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jar/io/netty/channel/AddressedEnvelope.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>
 * 
 * [@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>
 * 
 * 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
 * </pre>
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;</b>  
    } 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 a unauthenticated client can get  
the confidential information:

// Create a new handler instance per channel.  
// See \link ChannelInitializer\initChannel(\Channel\).  
public class DataServerInitializer extends \ChannelInitializer\{\Channel\} {  
  @Override  
  public void initChannel(@Channel channel) {  
    channel.pipeline().addLast("handler", \new DataServerHandler\());  
  }  
}  

<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  
\link ChannelHandlerContext\:

public interface Message {  
  // your methods here  
}
* [@code @Sharable]
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]<@Message>{@ 
*     private final [@link AttributeKey]<@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 (Boolean.TRUE.equals(attr.get())) {
*                 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]<@Channel> {
*     private static final DataServerHandler SHARED = new DataServerHandler();
* 
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", SHARED);
*     }
* }<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 `<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>`.

* `<p>`
* Additional resources worth reading

* `<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.

*/

Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelHandler.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/pool/SimpleChannelPool.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
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/netty-transport-4-1-32-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
/netty-transport-4-1-32-final-sources-jar/io/netty/channel/pool/FixedChannelPool.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/nio/NioChannelOption.java

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1.1577 wildfly-elytron-sasl-entity 1.11.4.Final

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 *
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 * 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/1110920135_1606872363.9/0/asm-commons-5-1-sources-
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* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/analysis/StubFunction.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/AppVisitor.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/asm/Context.java
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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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*/
/**
 * 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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jar/org/objectweb/asm/optimizer/shrink-annotations.properties
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* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/xml/SAXCodeAdapter.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/xml/Processor.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/xml/SAXClassAdapter.java
* /opt/cola/permits/1110920135_1606872363.9/0/asm-commons-5-1-sources-jar/org/objectweb/xml/SAXAdapter.java
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 */
/**
 * Creates a new [AnalyzerAdapter]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [AnalyzerAdapter(int, String, int, String, String, MethodVisitor)] version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [Opcodes]).
 * @param name
 * the method’s name.
 * @param desc
 * the method's descriptor (see [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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---

**GeneratorAdapter constructor**

```java
/**
 * Creates a new [GeneratorAdapter]. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * [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 descr
*       the method's descriptor (see [@link Type Type]).
* @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
 *             If a subclass calls this constructor.
 */

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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.

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The class org.apache.lucene.util.WeakIdentityMap was derived from
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
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The snowball stopword lists in
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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
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The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default
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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

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The Polish analyzer (stempel) comes with a default
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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from
mecab-ipadic-2.7.0-20070801

which can be obtained from
http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

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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1.1612 zookeeper-jute 3.6.1
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* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/jute/package.html
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/jute/compiler/generated/package.html

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* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/OutputArchive.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/JVector.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/JCompType.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/RecordWriter.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/CSharpGenerator.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/CppGenerator.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/JRecord.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/JDouble.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/JString.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/Record.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/BinaryOutputArchive.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/JavaGenerator.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/Index.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/JByte.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/Buffer.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/OutputArchive.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/To不失archive.
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/JavaGenerator.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/Index.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/jute/compiler/JType.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/JField.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/JFile.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/RecordReader.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/JBoolean.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/JLong.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/JMap.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/RecordReader.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/InputArchive.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/ByteBuffer.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/BinaryInputArchive.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/JFloat.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/RccTokenManager.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/SimpleCharStream.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/TokenMgrError.java

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jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/TokenMgrError.java
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  jar/org/apache/zookeeper/proto/SetWatches.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
  jar/org/apache/zookeeper/txn/TxnDigest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
  jar/org/apache/zookeeper/proto/SetSASLRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
  jar/org/apache/zookeeper/data/ACL.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
  jar/org/apache/zookeeper/proto/CheckWatchesRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
  jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/proto/CreateResponse.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/proto/SetDataRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/proto/GetChildrenRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/proto/ReconfigRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/proto/AddWatchRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/txn/CheckVersionTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/proto/SetSASLResponse.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/txn/ErrorTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/zookeeper-jute-3-6-1-sources-
jar/org/apache/zookeeper/proto/ReplyHeader.java

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options {
    STATIC=false;
}

PARSER_BEGIN(Rcc)
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 */

package org.apache.jute.compiler.generated;
import org.apache.jute.compiler.*;
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
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++) {
            curFileName = recFiles.get(i);
            File file = 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) {
        }
    }
}

PARSER_END(Rcc)

SKIP:
{
    " =
    | \
    | "\n    | "\r
}

SPECIAL_TOKEN:
{
    "/": WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN :
{
    <("\n" | "\r" | "\r\n") > : DEFAULT
}
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 +

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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>
)+</n
    <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;
}
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```java
{   
  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); }
}

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* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/jute/compiler/generated/rcc.jj
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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/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.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/PooledSlicedByteBuf.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/AbstractPooledDerivedByteBuf.java

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  jar/io/netty/buffer/DefaultByteBufHolder.java
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  jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
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  jar/io/netty/buffer/EmptyByteBuf.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/SwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/AbstractByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/AbstractByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolArena.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
1.1614 xmltodict 0.11.0

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**1.1627 busybox 1.27.2 6**

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jseward@bzip.org
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Name: cloud-init
Maintainer: Scott Moser <scott.moser@canonical.com>
Source: https://launchpad.net/cloud-init

This package was debianized by Soren Hansen <soren@ubuntu.com> on Thu, 04 Sep 2008 12:49:15 +0200 as ec2-init. It was later renamed to cloud-utils by Scott Moser <scott.moser@canonical.com>

Upstream Author: Scott Moser <smoser@canonical.com>
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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

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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
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

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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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1.1634 ecdsa 0.13

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1.1637 debianutils 4.7

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1.1638 weld-probe-core 3.1.3.Final

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 * /opt/cola/permits/1111238408_1606882811.81/0/spring-expression-4-3-7-release-sources-1.jar/org/springframework/expression/spel/ast/OpMinus.java
 * /opt/cola/permits/1111238408_1606882811.81/0/spring-expression-4-3-7-release-sources-1.jar/org/springframework/expression/spel/ast/OperatorMatches.java
 * /opt/cola/permits/1111238408_1606882811.81/0/spring-expression-4-3-7-release-sources-1.jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
 */

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  jar/org/springframework/expression/spel/spel/NullLiteral.java
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1.1648 zlib 1.2.5

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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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1.1665 jboss-jaxws-api-2-3-spec 2.0.0.Final
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* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/DseSchemaBuilder.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/oss/driver/api/querybuilder/schema/CreateMaterializedViewWhereStart.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/oss/driver/api/querybuilder/condition/ConditionalStatement.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/oss/driver/api/querybuilder/schema/AlterTableAddColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/oss/driver/internal/querybuilder/relation/DefaultMultiColumnRelationBuilder.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterDseTableDropColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/internal/querybuilder/schema/DseTableGraphOperationType.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/internal/querybuilder/schema/compaction/DefaultCompactionStrategy.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterDseTableRenameColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterTableWithOptionsEnd.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/internal/querybuilder/schema/DefaultCreateDseFunction.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterTableAddColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterDseTableDropColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterDseTableRenameColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterTableWithOptionsEnd.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterDseTableRenameColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterTableWithOptionsEnd.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterDseTableRenameColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterTableAddColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterDseTableDropColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterDseTableRenameColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterTableWithOptionsEnd.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/databas/dse/driver/api/querybuilder/schema/AlterDseTableRenameColumn.java
Open Source Used In MSX SD-WAN Service Pack 4.0.0

- jar/com/datastax/oss/driver/api/querybuilder/update/Assignment.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/DseTableVertexOperation.java
- jar/com/datastax/oss/driver/api/querybuilder/schema/DefaultCreateDseKeyspace.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/KeyspaceOptions.java
- jar/com/datastax/oss/driver/api/querybuilder/schema/CreateIndex.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/package-info.java
- jar/com/datastax/oss/driver/api/querybuilder/schema/CreateDseKeyspaceStart.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/DseRelationOptions.java
- jar/com/datastax/oss/driver/api/querybuilder/schema/CreateMaterializedViewStart.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/CreateDseTableWithOptions.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/CreateDseAggregateEnd.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/CreateDseTableWithOptions.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/CreateDseKeyspaceStart.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/CreateIndex.java
- jar/com/datastax/oss/driver/api/querybuilder/schema/CreateDseKeyspace.java
- jar/com/datastax/dse/driver/api/querybuilder/schema/package-info.java
- jar/com/datastax/oss/driver/api/querybuilder/schema/CreateKeyspace.java
- jar/com/datastax/oss/driver/api/querybuilder/schema/DseRelationOptions.java
- jar/com/datastax/oss/driver/api/querybuilder/schema/package-info.java
- jar/com/datastax/oss/driver/api/querybuilder/schema/CreateDseKeyspaceStart.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/META-INF/maven/com.datastax.oss/java-driver-query-builder/pom.xml
1.1680 gnutls 3.6.1

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#include <sys/types.h>
#include <unistd.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 POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0100
#define POLLNVAL 0x0020
#if 0
    #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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* @version 3.0 (December 2000)
* *
* Optimised ANSI C code for the Rijndael cipher (now AES)
* *
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
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 */
pid_t waitpid(int, int *, int);

#endif
#endif

#ifndef HAVE_WAITPID_H
#endif
1.1683 libtool 2.4.6
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* /opt/ws_local/PERMITS_SQL/1070651034_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1.jar/org/springframework/security/oauth/provider/ConsumerDetails.java

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    Bellingham, WA 98226-9062

*************************************************************************/

#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);
    }
}
}
/* 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. */

cchar
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;
    *diffptr-- = 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;
        *diffptr-- = 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;
        } /* end switch (cmp_res) */
    } /* end if (n1->n_sign == n2->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;
}
*pvptr = sum;
}

/* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must
be larger than 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-- + carry;
    if (*accp > (BASE-1)) {
      carry = 1;
      *accp-- = BASE;
    } else {
      carry = 0;
    }
  }
  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);
/* 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 */
_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;
b_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;
              /* Initialize */
              *rptr-- = value;
            }
        }
    }
}
/* 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. */

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],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--;

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;
for (n2ptr = num2;
     *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++;
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
b_c_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 result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
  bc_num num1, num2, *result;
  int scale;
{
  return bc_divmod (num1, num2, NULL, result, scale);
}

/* 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);
bc_free_num (&exponent);
bc_free_num (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 pwrscale;
    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);
broadcast (guess, &num, rscale);
broadcast (&guess);
broadcast (&guess1);
broadcast (&point5);
broadcast (&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[] = "0123456789ABCDEF";

/* 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)
void bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#else
    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');
        }
        else
            /* Now the fraction. */
if (num->n_scale > 0)
{
    (*out_char) ('.);
    for (index=0; index<num->n_scale; index++)
        (*out_char) (BCD_CHAR(*nptr++));
}

else
{
    /* special case ... */
    if (leading_zero && bc_is_zero (num))
        (*out_char) ('0');

    /* The number is some other base. */
    digits = NULL;
    bc_init_num (&int_part);
    bc_divide (num, _one_, &int_part, 0);
    bc_init_num (&frac_part);
    bc_init_num (&cur_dig);
    bc_init_num (&base);
    bc_sub (num, int_part, &frac_part, 0);
    /* Make the INT_PART and FRAC_PART positive. */
    int_part->n_sign = PLUS;
    frac_part->n_sign = PLUS;
    bc_int2num (&base, o_base);
    bc_init_num (&max_o_digit);
    bc_int2num (&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;
        bc_divide (int_part, base, &int_part, 0);
    }

    /* Print the digits on the stack. */
    if (digits != NULL)
    {
        /* Output the digits. */
        while (digits != NULL)
        {
            temp = digits;
            /* 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);
bccount_num (&frac_part);
bccount_num (&base);
bccount_num (&cur_dig);
bccount_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++;
    while (isdigit((int)*ptr)) ptr++, digits++;
    if (*ptr == '.') ptr++;
    while (isdigit((int)*ptr)) ptr++, strscale++;
    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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1.1695 jboss-el-api-3-0-spec 2.0.0.Final

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1.1696 luajit 2.1.0

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1.1697 commons-io 1.3.2

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On all platforms, Nmap is normally linked with:

1. **libpcap**: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
   http://www.tcpdump.org/
2. **libdnet**: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
   http://code.google.com/p/libdnet/
3. **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/
4. **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/
Open Source Used In MSX SD-WAN Service Pack 4.0.0

- 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/


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/winpcap.
  - http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:

- Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  - http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:

- GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.
  - http://www.gtk.org/

- Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.
  - http://www.cairographics.org/

- libgailutil: Accessibility support for GTK+.

- libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

- zlib and bzip2: compression libraries.

- Expat: XML parser library.
  - http://expat.sourceforge.net/

- fontconfig: font configuration library.
  - http://www.fontconfig.org/

- FreeType: font rendering library.
  - http://www.freetype.org/

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   http://www.pygtk.org/
o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
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Written by:       Philip Hazel
Email local part: ph10
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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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cdi-api 2.0 (JSR 365: Contexts and Dependency Injection for Java (2.0))

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# Jackson JSON processor

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The primary ANTLR guy:

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## Source Code

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1.1731 commons-codec 1.9

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1.1732 jakarta-json-bind-api 1.0.2

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1.1737 libtls-standalone 2.9.1-r0

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1.1738 jersey-common 2.25

1.1739 zstd-jni 1.3.8-6

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1.1740 libuv 1.11.0

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   */

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
  uv__io_t event_watcher;

#endif

Open Source Used In MSX SD-WAN Service Pack 4.0.0 15099
#define UV_IO_PRIVATE_PLATFORM_FIELDS
  int rcount;  \
  int wcount;  \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: *

========

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Files: getopt.c

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1.1741 neo4j-cypher-compiler 2.3.12
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1.1743 jackson 2.9.10

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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

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### Source Code

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* https://github.com/eclipse-ee4j/jersey

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jar/net/bytebuddy/jar/asm/package.html
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/subclass/ConstructorStrategy.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/type/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/package-info.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation(auxiliary/AuxiliaryType.java
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/Method_accessorFactory.java
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1.1770 neo4j-cypher-expression-evaluator

3.5.14

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1.1773 neo4j-command-line 3.5.14

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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#
# 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): $<$(O)$(OBJS)
(cd pic; ld -Bshareable -o $(SHLIBDIR)/$(BSD_LIB) $(LDFLAGS_SHLIB) $<$(O)$(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) $(my_dir) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
$<$(INSTALL_PROGRAM) $(BSD_LIB) $(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB)

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 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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Theodore Ts'o
23-June-2007

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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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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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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.1785 opensaml-xacml-impl 3.3.1

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1.1786 lucene-sandbox 6.6.1

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1.1790 jersey-server 1.19.3

1.1791 errors v0.9.1

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1.1792 libgcrypt 1.8.4 5
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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.

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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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<signature of Ty Coon>, 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
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:

1) This license text must be included unmodified.

2) The modified Vim must be distributed in one of the following five ways:

   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

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   c) Provide all the changes, including source code, with every copy of
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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them 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.

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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 corrections.

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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

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* /opt/ws_local/PERMITS_SQL/1075758032_1596170476.98/0/jnats-2-6-8-sources-jar/io/nats/client/impl/NatsImpl.java
* /opt/ws_local/PERMITS_SQL/1075758032_1596170476.98/0/jnats-2-6-8-sources-jar/io/nats/examples/NatsDispatch.java
* /opt/ws_local/PERMITS_SQL/1075758032_1596170476.98/0/jnats-2-6-8-sources-jar/io/nats/examples/ExampleAuthHandler.java
* /opt/ws_local/PERMITS_SQL/1075758032_1596170476.98/0/jnats-2-6-8-sources-jar/io/nats/examples/autobench/LatencyBenchmark.java
* /opt/ws_local/PERMITS_SQL/1075758032_1596170476.98/0/jnats-2-6-8-sources-jar/io/nats/examples/stan/StanExit.java
* /opt/ws_local/PERMITS_SQL/1075758032_1596170476.98/0/jnats-2-6-8-sources-jar/io/nats/examples/stan/StanRandom.java
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1.1817 not-going-to-be-commons-ssl 0.3.20

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File: src/main/java/org/apache/commons/ssl/ASN1Util.java
Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Fixing tryJKS to correctly return null for a potential PKCS12 file with no key entry. This happens with cacerts in Java 9+ because of the changes in JEP 229, because both JKS and PKCS12 files can now be loaded using either the JKS or PKCS12 keystore type.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/*

Changes: Replacing direct printStackTrace calls with Logger calls, remove logging "abstraction".

Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/*

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Objenesis 2.5.1

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The PKCS12 key derivation function was also developed by Bouncy Castle
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Brantley, Michael
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1.1822 pipe 2.0.0-20140414041502-3c2ca4d52544

1.1822.1 Available under license:

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1.1826 wildfly-ee-security 19.1.0.Final

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/* Getopt for GNU.

NOTE: gnu_getopt is now part of the C library, so if you don't know what
"Keep this file name-space clean" means, talk to roland@gnu.ai.mit.edu
before changing it!

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Free Software Foundation, Inc.

This file is part of the GNU C Library. Its master source is NOT part of
the C library, however. The master source lives in /gd/gnu/lib.

The GNU C Library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public License as
#include <stdio.h>
#include <stdlib.h>
#ifndef _MSC_VER /* Visual C++ doesn't have unistd.h */
    #include <unistd.h>
#endif
#include <string.h>

#include <stdio.h>
#include <stdlib.h>
#ifndef _MSC_VER /* Visual C++ doesn't have unistd.h */
    #include <unistd.h>
#endif
#include <string.h>

#if defined _
    /* This is for other GNU distributions with internationalized messages. 
When compiling libc, the _ macro is predefined. */
    ifdef 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
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. */

```c
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] == '-' 
 || (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);
                }
            nextchar += strlen (nextchar);
            gnu_optopt = pfound->val;
            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][0]);
            nextchar += strlen (nextchar);
            gnu_optopt = pfound->val;
            return optstring[0] == ':' ? ':' : '?';
        }
    } else if ( longind != 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 ) {
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;

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return '?';
}
/* Convenience. Treat POSIX -W foo same as long option --foo */
if ( temp[0] == 'W' && temp[1] == ';' ) {
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_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 = '?';
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;

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indfound = option_index;
extact = 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
"),
            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 `-W %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':

            
            
            
            
            
            
            
            
            
            
            
            

        }
    }
}

} /* end extern "C" */
#endif
if ( digit_optind != 0 && digit_optind != this_option_optind )
    fprintf ( stderr, "digits occur in two different argv-elements.\n\n" );
digit_optind = this_option_optind;
fprintf ( stderr, "option %\c\n", c );
break;

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\n", 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: \n\n" );
    while ( gnu_optind < argc )
        fprintf ( stderr, "%s \n", argv[gnu_optind++] );
    fprintf ( stderr, "\n" );
}

exit ( 0 );
}

#endif /* TEST */

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* /opt/cola/permits/1150951680_1617727530.68/0/servlet-api-4.0.0-sources-3-jar/org/xipki/http/servlet/ServletURIPool.java

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1.1837 jline 2.14.3

1.1838 hibernate-validator 5.3.4.Final

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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.
 */

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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
[@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
will be used as parameter names.

The following listing shows an example using the JavaScript engine which
comes with the JDK:

```
@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
*/

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jar/org/hibernate/validator/internal/constraintvalidators/bv/future/FutureValidatorForReadableInstant.java
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jar/org/hibernate/validator/constraints/ConstraintComposition.java
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jar/org/hibernate/validator/internal/engine/valuehandling/TypeResolverBasedValueUnwrapper.java
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jar/org/hibernate/validator/internal/util/classhierarchy/Filter.java
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jar/org/hibernate/validator/internal/constraintvalidators/hv/ScriptAssertValidator.java
* /opt/cola/permits/1111409420_1606911309.77/0/hibernate-validator-5-3-4-final-sources-4-
jar/org/hibernate/validator/spi/valuehandling/ValidatedValueUnwrapper.java
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jar/org/hibernate/validator/spi/valuehandling/ValidatedValueUnwrapper.java
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jar/org/hibernate/validator/constraints/bv/CPF.java
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1.1843 jetty-util 9.4.2.v20170220

1.1844 django-extensions 1.7.9

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1.1845 spring-cloud-stream-binder-kafka
3.0.6.RELEASE

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1.1846 jna 4.5.0

1.1847 sed 4.7 1

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1.1854 properties v1.8.1

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1.1857 wildfly-clustering-marshalling-api

19.1.0.Final

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1.1858 jaxb-runtime 2.3.0

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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/jose4j/jwk/RsaKeyUtil.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/jose4j/jwk/OctetSequenceJsonWebKey.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/jose4j/lang/DefaultByteGenerator.java
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1.1875 go-jose v2.3.1

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1.1876 neo4j-csv 3.5.4

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 * <p>
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 * 
 * @author Luke Taylor
 * @since 3.0
 */

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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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/**
* 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/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-jar/org/springframework/security/authentication/encoding/Md4PasswordEncoder.java

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 */
/**
 * Determines if the {@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()}, else
 * false
 */

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  jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4.2.2-release-sources-1-
  jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4.2.2-release-sources-1-
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* 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.

* @author Ben Alex

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*/
jar/org/springframework/security/access/event/LoggerListener.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
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jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
jar/org/springframework/security/access/intercept/MethodInvocationPrivilegeEvaluator.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
jar/org/springframework/security/authentication/DaoAuthenticationProvider.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
jar/org/springframework/security/core/AuthenticationException.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
jar/org/springframework/security/core/context/SecurityContextHolder.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
jar/org/springframework/security/util/FieldUtils.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
jar/org/springframework/security/access/context/SecurityContext.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
jar/org/springframework/security/access/intercept/aspectj/AspectJCallback.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-
jar/org/springframework/security/access/intercept/aspectj/AspectJCallback.java
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jar/org/springframework/security/access/intercept/AfterInvocationProviderManager.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1.jar/org/springframework/security/access/authentication/jaas/JaasAuthenticationCallbackHandler.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1.jar/org/springframework/security/access/intercept/NullRunAsManager.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1.jar/org/springframework/security/access/jaas/JaasPasswordCallbackHandler.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1.jar/org/springframework/security/access/AccessDeniedException.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1.jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyUtils.java
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* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1.jar/org/springframework/security/crypto/encrypt/BouncyCastleAesBytesEncryptor.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1.jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
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* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1.jar/org/springframework/security/crypto/encrypt/BytesKeyGenerator.java
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*  /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java
*  /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-jar/org/springframework/security/core/userdetails/AuthenticationUserDetailsService.java
*  /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-jar/org/springframework/security/context/DelegatingApplicationListener.java
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*  /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-jar/org/springframework/security/access/prepost/PostFilter.java
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* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-jar/org/springframework/security/provisioning/UserDetailsManager.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
* /opt/ws_local/PERMITS_SQL/1074015462_1595536380.23/0/spring-security-core-4-2-2-release-sources-1-jar/org/springframework/security/authentication/AuthenticationEventPublisher.java
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1.1880 slf4j-log4j-12-binding 1.6.1

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1.1881 zipkin-sender-kafka 2.15.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2.reporter.kafka
Bnd-LastModified: 1589702632723
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Sender: Kafka 0.11+
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-kafka
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.kafka;version="2.15.0";uses="zipkin2,z
ipkin2.codec,zipkin2.reporter"
producer,org.apache.kafka.common,org.apache.kafka.common.serialization,
zipkin2;version="[2.21.3)".zipkin2.codec;version="[2.21.3)".zipkin2.rep
orter;version="[2.15,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter="(osgi.ee=JavaSE)(version=1.7)"
Tool: Bnd-4.2.0.201903051501

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**1.1882 scala-reflect 2.10.4**

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1.1904 api-util 1.0.0-M20

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1.1905 yaml 1.0.0

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Description: Makes the generated copyright headers reproducible
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--- a/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
+++ b/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
@@ -26,6 +26,7 @@
package build.tools.cldrconverter;
import java.util.Calendar;
+import java.util.Date;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;
@@ -150,8 +151,14 @@
}

private static int getYear() {
-        return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
-                                         Locale.US).get(Calendar.YEAR);
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.English);
+        calendar.setTime(date);
+        return calendar.get(Calendar.YEAR);
}

    // no instantiation

--- a/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
---

`import java.time.ZoneId;`  
`import java.time.ZonedDateTime;`  
`import java.util.ArrayList;`  
`import java.util.Calendar;`  
`import java.util.Date;`  
`import java.util.GregorianCalendar;`  
`import java.util.List;`  
`import java.util.Locale;`  
`import java.util.Map;`  
`import java.util.TimeZone;`  
`import java.util.TreeMap;`

```java
/**
 * @ @ -225,8 +229,15 @@
+ */

    private static String getOpenJDKCopyright() {
        int year = ZonedDateTime.now(ZoneId.of("America/Los_Angeles")).getYear();
        Date date = new Date();
        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
        }
        GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
        calendar.setTime(date);
        int year = calendar.get(Calendar.YEAR);
        return String.format(Locale.US, COPYRIGHT, year);
    }

**
@@ -225,8 +229,15 @@
+ "}"

1.1909 valgrind 3.11.0
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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

------
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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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2.reporter.amqp
Bnd-LastModified: 1589702698496
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin Reporter (Parent)
Bundle-DocURL: https://zipkin.io/
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Sender: RabbitMQ AMQP Client 4.x
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-amqp-client
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.15.0
Export-Package: zipkin2.reporter.amqp;version="2.15.0";uses:="com.rabbitmq.client,zipkin2,zipkin2.codec,zipkin2.reporter"
Import-Package: com.rabbitmq.client;version="[4.11,5)" ,zipkin2;version="[2.21,3)" ,zipkin2.codec;version="[2.21,3)" ,zipkin2.reporter;version="[2.15,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1096695372_1601878509.68/0/zipkin-sender-amqp-client-2-15-0-jar/META-INF/MANIFEST.MF
1.1918 zstd-jni 1.4.4-7

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* /opt/cola/permits/1135880214_1613624081.79/jar/org/springframework/web/servlet/function/DefaultServerRequestBuilder.java
* /opt/cola/permits/1135880214_1613624081.79/jar/org/springframework/web/servlet/mvc/condition/AbstractRequestCondition.java
* /opt/cola/permits/1135880214_1613624081.79/jar/org/springframework/web/servlet/mvc/tags/form/RadioButtonsTag.java
* /opt/cola/permits/1135880214_1613624081.79/jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
* /opt/cola/permits/1135880214_1613624081.79/jar/org/springframework/web/servlet/mvc/LastModified.java
* /opt/cola/permits/1135880214_1613624081.79/jar/org/springframework/web/servlet/mvc/Condition.java
* /opt/cola/permits/1135880214_1613624081.79/jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java
* /opt/cola/permits/1135880214_1613624081.79/jar/org/springframework/web/servlet/tags/ParamAware.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
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2.jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletResponseMethodArgumentResolver.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/config/TilesConfigurerBeanDefinitionParser.java

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1.1927 lua 5.3.3

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* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
  jar/io/jaegertracing/internal/metrics/NoopMetricsFactory.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
  jar/io/jaegertracing/spi/Codec.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
  jar/io/jaegertracing/spi/MetricsFactory.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
  jar/io/jaegertracing/internal/propagation/CompositeCodec.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
  jar/io/jaegertracing/internal/metrics/InMemoryMetricsFactory.java

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* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/JaegerTracer.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/JaegerSpanContext.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/JaegerSpan.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/propagation/TextMapCodec.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/exceptions/BaggageRestrictionManagerException.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/baggage/DefaultBaggageRestrictionManager.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/utils/Java6CompatibleThreadLocalRandom.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/baggage/Restriction.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/baggage/HttpBaggageRestrictionManagerProxy.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/baggage/propagation/MultiBaggageCarrier.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/propagation/TextMapCodec.java

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* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/baggage/DefaultBaggageRestrictionManager.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/utils/Java6CompatibleThreadLocalRandom.java
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* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/baggage/HttpBaggageRestrictionManagerProxy.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/baggage/propagation/MultiBaggageCarrier.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-jar/io/jaegertracing/internal/baggage/propagation/TextMapCodec.java

jar/io/jaegertracing/spi/BaggageRestrictionManagerProxy.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/baggage/http/BaggageRestrictionResponse.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/baggage/RemoteBaggageRestrictionManager.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/baggage/BaggageSetter.java
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jar/io/jaegertracing/internal/BaggageSetter.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
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* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/exceptions/MalformedTracerStateStringException.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/reporters/LoggingReporter.java
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jar/io/jaegertracing/internal/samplers/http/RateLimitingSamplingStrategy.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/clock/SystemClock.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/samplers/RemoteControlledSampler.java
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jar/io/jaegertracing/internal/LogData.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/samplers/PerOperationSampler.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/spi/Extractor.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/samplers/http/SamplingStrategyResponse.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/spi/Sampler.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/samplers/http/ProbabilisticSamplingStrategy.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/reporters/CompositeReporter.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/samplers/OperationSamplingParameters.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/propagation/PrefixedKeys.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/utils/Utils.java
* /opt/ws_local/PERMITS_SQL/1094804250_1601319488.55/0/jaeger-core-0-34-3-sources-
jar/io/jaegertracing/internal/exceptions/UnsupportedFormatException.java
1.1929 libffi 3.2.1 4

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1.1931 angular-vs-repeat 1.1.7

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1.1932 curl 7.58.0

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=============

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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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* 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

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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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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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/session/CompositeSessionAuthenticationStrategy.java

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jar/org/springframework/security/web/authentication/www/DigestAuthUtils.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/util/matcher/AndRequestMatcher.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/firewall/RequestRejectedException.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/util/matcher/OrRequestMatcher.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/logout/SimpleUrlLogoutSuccessHandler.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/preauth/websphere/WebSpherePreAuthenticatedProcessingFilter.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/security/web/savedrequest/RequestCacheAwareFilter.java

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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/jackson2/DefaultCsrfTokenMixin.java
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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/session/SessionInformationExpiredStrategy.java
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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/jackson2/WebAuthenticationDetailsMixin.java
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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/jackson2/SavedCookieMixin.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/jackson2/WebServletJackson2Module.java
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  jar/org/springframework/security/web/authentication/DelegatingAuthenticationFailureHandler.java
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  jar/org/springframework/security/web/context/support/SecurityWebApplicationContextUtils.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
  jar/org/springframework/security/web/access/expression/EvaluationContextPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
  jar/org/springframework/security/web/access/expression/AbstractVariableEvaluationContextPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
  jar/org/springframework/security/web/access/Delegating/AccessDeniedHandler.java

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* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
jar/org/springframework/security/web/util/matcher/RequestHeaderRequestMatcher.java

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1.1950 brave-instrumentation-spring-web
5.12.3
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* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/NonTransientDataAccessResourceException.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/event/TransactionPhase.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/jca/cci/object/EisOperation.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/jca/cci/object/EisOperation.java
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* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/NonTransientDataAccessException.java
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* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/context/BootstrapContextAwareProcessor.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/DataAccessResourceFailureException.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/DataAccessException.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/DataRetrievalFailureException.java
* /opt/cola/permits/1135880286_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
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1.1954 gdbm 1.18.1-4

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notice like this when it starts in an interactive mode:

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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
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1.1958 wildfly-core-security-api 11.1.1.Final

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1.1959 netty-handler 4.1.13.FINAL

1.1960 openssh 7.2p2 4ubuntu2.8

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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_

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
#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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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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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>

* @author Paulo Barreto <paulo.barreto@terra.com.br>

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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 WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
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#
#
# River protocol provider
#
org.jboss.marshalling.river.RiverProviderDescriptor

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1.1967 rsync 3.1.3

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1.1970 jackson-annotations 2.10.1
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package license

import (
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name string
    remove bool
}

func init() {
    cli.Register("license.assign", &assign{})
}
func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", "", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.
Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    return flag.ErrHelp
}
key := f.Arg(0)

client, err := cmd.Client()
if err != nil {
    return err
}

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

host, err := cmd.HostSystemIfSpecified()
if err != nil {
    return err
}

var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }
    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
} else {
    id = host.Reference().Value
}

if cmd.remove {
    return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))

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*/

package license

import (
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag
    feature string
}

func init() {
    cli.Register("license.ls", &ls{}))
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}
func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

/package license

import (  
    "context"
)
package license

import "fmt"
import "os"
import "github.com/vmware/govmomi/govc/cli"
import "github.com/vmware/govmomi/govc/flags"
import "github.com/vmware/govmomi/license"

// type add struct {
//   *flags.ClientFlag
//   *flags.OutputFlag
// }

func init() {
    cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)

    return nil
}
// From the vSphere 5.5 documentation:
//
// To specify the edition type and any optional functions, use
// updateLicense for ESX Server and addLicense follow by
// LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
//
var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
}

result := make(licenseOutput, 0)
for _, v := range f.Args() {
    license, err := addFunc(ctx, v, nil)
    if err != nil {
        return err
    }
    result = append(result, license)
}

return cmd.WriteResult(licenseOutput(result))

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/

package simulator

import (
    "context"
    "reflect"
    "testing"

    "github.com/vmware/govmomi"
    "github.com/vmware/govmomi/find"
    "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()
    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    am, err := lm.AssignmentManager(ctx)
    if err != nil {
        t.Fatal(err)
    }

    la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
    t.Fatal(err)
}

if len(la) != 0 {
    t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
    t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }
    if len(la) != 1 {
        t.Fatal("no licenses")
    }

    if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
m := ESX()

deferd m.Remove()

er := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
deferd s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
_, err = lm.AssignmentManager(ctx)
if err == nil {
    t.Fatal("expected error")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()

    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    key := "00000-00000-00000-00000-11111"
    labels := map[string]string{"key": "value"}

    info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}

if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}", info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}", la[1].Labels[0].Key, la[1].Labels[0].Value)
}

erro = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

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package simulator

import {
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
}

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{Key: "serialuri:2",
                                Value: "Remote virtual Serial Port Concentrator"},
        },
        {Key: "feature",
         Value: types.KeyValue{Key: "dvs",
                                Value: "vSphere Distributed Switch"},
        },
    }
}
type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{ }).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{ }
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{ }
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
        }
    }

    return body
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo { 
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}
package license

import (  
  "context"
  "flag"

  "github.com/vmware/govmomi/govc/cli"
  "github.com/vmware/govmomi/govc/flags"
  "github.com/vmware/govmomi/license"
)

type decode struct {
  *flags.ClientFlag
  *flags.OutputFlag

  feature string
}

func init() {
  cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)

  f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

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*
func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
        result = append(result, license)
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

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*/

package license

import (
    "context"
    "strconv"
    "strings"

    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }

    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }

    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string)
func (m Manager) AddLicense(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }
    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }
    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }
    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }
    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ",")
    lf.name = f[0]
    // Other fields can be filled here
    return lf
}
if len(f) > 1 {
    var err error
    lf.level, err = strconv.Atoi(f[1])
    if err != nil {
        lf.name = feature
    }
}

return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }
        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }
        lf := parseLicenseFeature(kv.Key)

        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }

    return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}
return result
}

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    "flag"  
    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"  
)
type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.remove", &remove{})
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }
    return nil
}
package license

import (
    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag

    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)

    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
cmd.OutputFlag.Register(ctx, f)

f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }

    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.EntityId)
        fmt.Fprintf(tw, "%s	", v.Scope)
        fmt.Fprintf(tw, "%s	", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s	", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
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*/

package license

import (  
    "fmt"  
    "io"  
    "os"  
    "text/tabwriter"
)

"github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {  
tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)  
fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
")  
for _, v := range res {  
fmt.Fprintf(tw, "%s	", v.LicenseKey)  
fmt.Fprintf(tw, "%s	", v.EditionKey)  
fmt.Fprintf(tw, "%d	", v.Used)  
fmt.Fprintf(tw, "%d	", v.Total)  
fmt.Fprintf(tw, \"\n\")  
}  
return tw.Flush()  
}

#!/usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {  
if [ "$govc license.ls -json | jq -r .[0].EditionKey" != "eval" ]; then  
    skip "requires evaluation license"
fi
}

get_key() {  
jq ".[1] | select(.LicenseKey == "\$1\")"
}

get_property() {  
jq -r ".Properties[1] | select(.Key == "\$1\") .Value"
}
@test "license.add" {
  esx_env

  verify_evaluation

  run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
  assert_success

  # Expect to see an entry for both the first and the second key
  assert_equal "License is not valid for this product" "$\{(get_key 00000-00000-00000-00000-00001 <<<\{output\} | get_property diagnostic)\}"
  assert_equal "License is not valid for this product" "$\{(get_key 00000-00000-00000-00000-00002 <<<\{output\} | get_property diagnostic)\}"
}

@test "license.remove" {
  esx_env

  verify_evaluation

  run govc license.remove -json 00000-00000-00000-00000-00001
  assert_success
}

@test "license.ls" {
  vcsim_env

  verify_evaluation

  run govc license.ls -json
  assert_success

  # Expect the test instance to run in evaluation mode
  assert_equal "Evaluation Mode" "$\{(get_key 00000-00000-00000-00000-00000 <<<\{output\} jq -r ".Name")\}"
}

@test "license.decode" {
  esx_env

  verify_evaluation

  key=00000-00000-00000-00000-00000
  assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

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package license

import {
    "context"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
}

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }
    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }
    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:     m.Reference(),
        Entity:   id,
    }
    return
LicenseKey: key,
EntityDisplayName: name,
}

res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
if err != nil {
    return nil, err
}

return &res.Returnval, nil

1.1972 artemis-hornetq-protocol 2.10.1
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1.1983 asm 5.1

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1.1987 hibernate-search-backend-jms

5.10.7.Final

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1.1988 xmlsec-java 1.5.8

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1.1989 jax-rs-provider 1.9.13

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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
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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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tagset.

---

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http://sgjp.pl/morfeusz/

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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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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
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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
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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

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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1.1992 jaxb-api 2.1

1.1993 jansi-osx 1.8

1.1994 hazelcast-all 3.7.8
1.1994.1 Available under license :

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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;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

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;
}

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 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(" ");

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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;
}

@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;
    }

    if (getClass() != obj.getClass()) {
        return false;
    }
    if (obj == null) {
        return false;
    }
    if (getActions() != obj.getActions()) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    return true;
}
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;

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;
    }

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

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     */
@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;

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 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() {
            ...
        }
    }
}
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 (obj instanceof AllPermissionsCollection) {
        AllPermissionsCollection other = (AllPermissionsCollection) obj;
        if (all != other.all) {
            return false;
        }
    }

    return true;
}

public AllPermissionsCollection() {
    this.all = false;
}

public static final AllPermissionsCollection ALL_PERMISSIONS = new AllPermissionsCollection(true);
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 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;
            }
        }
        return mask;
    }

    // Other methods and implementations...
}
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;
}

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;

        return mask;
    }

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     */
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;

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;
}

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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";
    }
}

package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;

public LockPermission(String key, String... actions) {
    super(key, 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_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}

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 */
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;
    }

    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);
            }
        }
    }

    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();
}

public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}

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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 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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*/

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;
            } 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;
}

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 |= INDEX;
            } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
                mask |= INTERCEPT;
            }

            return mask;
        }
    }

    */
    */
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    * limitations under the License.
    */

    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 |= INDEX;
                }
            }

            mask |= INTERCEPT;
        }
    }
}
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;
}
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 */
package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
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.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";

    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);
            }
        });
    }
}
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 DistributedExecutorPermission(name, actions);
    }
});
@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);
    }
});

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);
}

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);
    }

    public ClusterPermission(String name) {
        super(name);
    }

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    */
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) {
        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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*/
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;
    }
}

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* Contains all the security permissions
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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 = 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;

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;
}

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);
    }

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     * limitations under the License.
     */

    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);
        }
    }
}
package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(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 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;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }

        return mask;
    }
}

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1.1997 mapstruct 1.3.1.Final

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1.1998 jquery-ui-dist 1.12.1

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1.2000 reactive-streams 1.0.2
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* /opt/cola/permits/1000738121_1607117695.13/jars/reactive-streams-1-0-2-sources-3-jar/org/reactivestreams/Processor.java
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* /opt/cola/permits/1000738121_1607117695.13/jars/reactive-streams-1-0-2-sources-3-jar/org/reactivestreams/Publisher.java

1.2001 json-c 0.13
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1.2002 reflections 0.9.12

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* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/Utils/ClassInstantiationUtility.java
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jar/com/nu/art/reflection/classLoader/ClassesLoader.java
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1.2003 libgpg-error 1.27

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    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

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/it/ItalianLightStemmer.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
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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: e663b35

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Stax2 API is an extension to basic Stax 1.0 API that adds significant new functionality, such as full-featured bi-direction validation interface and high-performance Typed Access API.

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XZ for Java 1.0 (2011-10-22)

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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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Nori Korean Morphological Analyzer - Apache Lucene Integration
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 */

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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:
 */

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)
    *         )
    *     )
    *     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)
    *         )
    * }
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/**
* 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("/")
*    //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.
 * <p>
 * The behaviour of methods inherited from java.lang.Object are undefined by the MicroProfile OpenAPI 
 * specification.
 * <p>
 * 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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1.2015 springfox-spi 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/OperationModelContextsBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/servicecontexts/ApiListingContext.java
1.2016 neo4j-cypher-util 3.4.17

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type License struct {
    Name string `json:"name,omitempty"`
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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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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.2024 zlib 1.2.8

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1.2027 jackson 1.9.12
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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
SHAREDLIBCXXFLAGS = -DPIE

## 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 $@ $<
## Dependency rules

%.d: $(@dir)/%.c
@echo "generating dependency information for $<"
@$SHELL -ec "$(GEN_DEPS.c) $<\n| sed \"s/\(.*\)\(\.*\)\(.*\)/\1.o $@ : /g\" > $@;\n[ -s $@ ] || rm -f $@

%.d: $(@dir)/%.cpp
@echo "generating dependency information for $<"
@$SHELL -ec "$(GEN_DEPS.cc) $<\n| sed \"s/\(.*\)\(\.*\)\(.*\)/\1.o $@ : /g\" > $@;\n[ -s $@ ] || rm -f $@

## Versioned libraries rules

%.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

1.2030 angular-ui-select 0.17.1
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1.2031 python-six 1.11.0

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1.2038 gocov-xml 0.0.0-20190121064608-3a14fb1c4737
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1.2039 process 0.11.10

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1.2040 zipkin 2.21.1
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 13
Automatic-Module-Name: zipkin2
Bnd-LastModified: 1586931162540
Build-Jdk: 13.0.2
Built-By: travis
Bundle-Description: Zipkin (Parent)
Bundle-DocURL: http://zipkin.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Zipkin Core Library
Bundle-SymbolicName: io.zipkin.zipkin2.zipkin
Bundle-Vendor: OpenZipkin
Bundle-Version: 2.21.1
Export-Package: zipkin2;version="2.21.1";uses="zipkin2.codec,zipkin2.internal",zipkin2.codec;version="2.21.1";uses="zipkin2.zipkin2.internal",zipkin2.storage;version="2.21.1";uses="zipkin2.zipkin2.internal",zipkin2.v1;version="2.21.1";uses="zipkin2.zipkin2.internal",zipkin2.v1;version="2.21.1";uses="zipkin2.zipkin2.internal";zipkin2internal=true;mandatory=zipkin2internal;version="2.21.1";uses="zipkin2.zipkin2.internal"
Import-Package: zipkin2;version="[2.21,3)".zipkin2.codec;version="[2.21,3)".zipkin2.internal;version="[2.21,3)".zipkin2internal=true.zipkin2.storage;version="[2.21,3)".zipkin2.v1;version="[2.21,3)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1096695204_1601878596.36/0/zipkin-2-21-1-jar/META-INF/MANIFEST.MF

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1.2042 opentelemetry-sdk-extension-otproto 0.6.0

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1.2045 guava 15.0

1.2046 openssh 8.0p1

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 */

/* OpenBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H
#endif
#define COMPAT_POLL_H

---

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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
#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_SETREGID
int setregid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETREUID
int setreuid(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 */

1.2047 spring-cloud-starter-zipkin

2.2.3.RELEASE

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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxLiftFuseable.java
* /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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  jar/reactor/core/publisher/MonoCreate.java
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  jar/reactor/core/publisher/MonoSink.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
  jar/reactor/core/publisher/FluxBufferTimeout.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
  jar/reactor/core/publisher/Flux.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
  jar/reactor/core/publisher/FluxPublish.java
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  jar/reactor/core/publisher/FluxDoFirst.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxIndexFuseable.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxIndex.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/util/context/Context2.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/OperatorDisposables.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/BlockingOptionalMonoSubscriber.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxLimitRequest.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/MonoSingleMono.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/MonoDeferWithContext.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/InternalConnectableFluxOperator.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/ContextTrackingFunctionWrapper.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/OptimizableOperator.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/scheduler/ReactorBlockHoundIntegration.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/InternalFluxOperator.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/FluxDeferWithContext.java

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Index: tdb5a/tdb.c
===================================================================
--- tdb5a.orig/tdb.c
+++ tdb5a/tdb.c
@@ -1674,7 +1674,7 @@
 "\n }
-#ifdef NF newest
+#ifdef NF newest
 "
 }

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Unix SMB/CIFS implementation.
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Theodore Ts'o
23-June-2007

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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"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBSJS)
((cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBSJS))
$(MV) pic/$(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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* 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

-----

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
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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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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

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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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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  jar/org/wildfly/security/sasl/digest/DigestSaslServer.java
* /opt/ws_local/PERMITS_SQL/1094801959_1601321766.47/0/wildfly-elytron-sasl-digest-1-11-4-final-sources-
  jar/org/wildfly/security/sasl/digest/DigestClientFactory.java
* /opt/ws_local/PERMITS_SQL/1094801959_1601321766.47/0/wildfly-elytron-sasl-digest-1-11-4-final-sources-
  jar/org/wildfly/security/sasl/digest/_private/DigestUtil.java
* /opt/ws_local/PERMITS_SQL/1094801959_1601321766.47/0/wildfly-elytron-sasl-digest-1-11-4-final-sources-
  jar/org/wildfly/security/sasl/digest/DigestServerFactory.java
* /opt/ws_local/PERMITS_SQL/1094801959_1601321766.47/0/wildfly-elytron-sasl-digest-1-11-4-final-sources-
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1.2075 wildfly-http-ejb-client 1.0.20.Final

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org.wildfly.httpclient.ejb.HttpClientProvider

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1.2076 neo4j-resource 3.5.4

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

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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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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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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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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 (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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## xwd v1.0.7

### xwd utility

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include/GL/gl.h:

Mesa 3-D graphics library

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---
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h:

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</pre>
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### Unicode Character Database
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1.2094 ng-focus-if 1.0.7

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  jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
  jar/org/springframework/aop/config/AspectComponentDefinition.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
  jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
  jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
  jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
  jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
1.2106 jwt-go 3.2.0+incompatible

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* /opt/ws_local/PERMITS_SQL/1094802619_1601320126.18/0/wildfly-elytron-client-1-11-4-final-sources-jar/schema/elytron-client-1_4.xsd
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* /opt/ws_local/PERMITS_SQL/1094802619_1601320126.18/0/wildfly-elytron-client-1-11-4-final-sources-jar/schema/elytron-client-1_5.xsd

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    /opt/ws_local/PERMITS_SQL/1094802619_1601320126.18/0/wildfly-elytron-client-1-11-4-final-sources-jar/org/wildfly/security/auth/client/PeerIdentity.java

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* /opt/ws_local/PERMITS_SQL/1094802619_1601320126.18/0/wildfly-elytron-client-1-11-4-final-sources-jar/org/wildfly/security/auth/client/AuthenticationConfiguration.java
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jar/org/wildfly/security/auth/client/MatchAbstractTypeRule.java  
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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.2113 libpcap 1.9.0

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1.2124 update-rc-d 0.7

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```bash
#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
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#
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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()
{
local i dn fn remove=0
if [ "x$1" = "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 $f ]; then
    return 1
fi
    fi
    echo "$f"
    if [ $notreally -eq 1 ]; then continue
fi
    rm $f
    fi
done
dolink()
{
    startstop=$1
    lev=`echo $2 | cut -d/ -f1`
    nn=`echo $2 | cut -d/ -f2`
    fn="${etcd}${lev}.d/${startstop}${nn}${bn}" 
    if [ $verbose -eq 1 ] && echo "$fn -> ../init.d/$bn"
        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
            ;;
        esac
        shift
    done

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
;;
*)
break
;;
esac
done

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
fi
sn="\$linksn"
case "\$sn" in
  /*) sn="\$root\$sn" ;;
  *) sn="\$initd/\$sn" ;;
esac
done
else
echo "update-rc.d: readdlink tool not present, cannot check whether \n\$sn symlink points to a valid file." >&2
fi
fi

if [ $1 != "remove" ]; then
  if [ ! -f "\$sn" ]; then
    echo "update-rc.d: Sinitd/\$bn: file does not exist" >&2
    exit 1
  fi
else
  if [ -f "\$sn" ]; then
    if [ $force -eq 1 ]; then
      echo "update-rc.d: Sinitd/\$bn exists during rc.d purge (continuing)" >&2
    else
      echo "update-rc.d: Sinitd/\$bn exists during rc.d purge (use -f to force)" >&2
      exit 1
    fi
  fi
fi
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
  esac
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/stop 3/stop 4/stop 5/stop"
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
    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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* 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 3a0982da308228d796df35f98d787c5c2f2bb56.

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

<!-- 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($text, '&#10;'))"/>
    <xsl:text>
    <xsl:variable name="rest" select="substring-after($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">
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  </xsl:variable>
</xsl:stylesheet>
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L. Peter Deutsch
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*/

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man/fparseln.3
src/fparseln.c
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include/bsd/readpassphrase.h
man/readpassphrase.3
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
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
src/readpassphrase.c
src/reallocarray.c
src/strlcat.c
src/strlcpy.c
src/strtonum.c
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src/hash/md5.c
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None
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Files:
src/explicit_bzero.c
src/chacha_private.h
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Files:
man/mdX.3bsd
src/hash/md5hl.c
src/hash/helper.c
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1.2138 watcher 1.0.7
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an `\import` when configuring the `\TestBed`. In the following code snippet, we are configuring the TestBed with two imports. The `\Ng2AppModule` is the Angular part of our hybrid application and the `\ng1AppModule` is the AngularJS part. Once this is done we can get hold of services via the Angular `\Injector` as normal. Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `\$injector`. In the following code snippet, `\HeroesService` is an Angular service that depends upon an AngularJS service, `\titleCase`. In the following code snippet, we are configuring the `\TestBed` with two imports. The `\Ng2AppModule` is the Angular part of our hybrid application and the `\ng1AppModule` is the AngularJS part. This helper is for testing services not Components. For Component testing you must still bootstrap a hybrid app. See `\UpgradeModule` or `\downgradeModule` for more information. Here is the example application and its unit tests that use `\createAngularTestingModule` and `\createAngularJSTestingModule`. Here is the example application and its unit tests that use `\createAngularTestingModule` and `\createAngularJSTestingModule`. The `\HeroesService` is an Angular service that depends upon an AngularJS service, `\titleCase`. The `\HeroesService` is an Angular service that depends upon an AngularJS service, `\titleCase`. The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `\createAngularTestingModule` in the same spec as `\createAngularJSTestingModule`. This function returns an AngularJS module that is configured to wire up the AngularJS and Angular injectors without the need to actually bootstrap a hybrid application. This makes it simpler and faster to unit test services. Use the returned AngularJS module in a call to

```javascript
\AngularTestingModule(\angularJSModules, \strictDi)
```

where `\angularJSModules` is an array of the names of AngularJS modules to include in the configuration and `\strictDi` is a boolean indicating whether the AngularJS injector should have `\strictDI` enabled. The helper function to use when unit testing AngularJS services that depend upon downgraded Angular services, will be instantiated as needed by the Angular root `\Injector`. In the following code snippet, we are configuring the `\$injector` with two modules. The AngularJS `\ng1AppModule`, which is the AngularJS part of our hybrid application and the `\Ng2AppModule`, which is the Angular part. In the following code snippet, we are configuring the `\$injector` with two modules. The AngularJS `\ng1AppModule`, which is the AngularJS part of our hybrid application and the `\Ng2AppModule`, which is the Angular part. This helper is for testing services not components. For Component testing you must still bootstrap a hybrid app. See `\UpgradeModule` or `\downgradeModule` for more information. The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$\rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular. The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$\rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.
*Only call this helper once per spec.* *Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.*

*Here is the example application and its unit tests that use `createAngularJSTestingModule` and `createAngularTestingModule`.*

*Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.*

```typescript
<code-tabs>
<code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>
<code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>
</code-tabs>
```

```typescript
@publicApi
*?function createAngularJSTestingModule(angularModules) {
    return
    module_($$angularJSTestingModule, [])
        .constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */)\n        .factory(INJECTOR_KEY, [
            $INJECTOR,
            function ($injector) {
                testing.TestBed.configureTestingModule({
                    imports: angularModules,
                    providers: [{
                        provide: $INJECTOR, useValue: $injector }
                    ]
                });
                return
                testing.TestBed.inject(core.Injector);
            }
        ])
        .name;
}*

exports.createAngularJSTestingModule = createAngularJSTestingModule;
```

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```typescript
Object.defineProperty(exports, '__esModule', { value: true });
```

```typescript
//# sourceMappingURL=upgrade-static-testing.umd.js.map
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.min.js.map

No license file was found, but licenses were detected in source scan.
directive(selector: string, factory: IInjectable): IModule;

controller(name: string, type: Injectable): IModule;

factory(key: Ng1Token, factoryFn: Injectable): IModule;

value(key: Ng1Token, value: any): IModule;

constant(token: Ng1Token, value: any): IModule;

run(a: Injectable): IModule;

export interface ICompileService {
  (element: Element|NodeList|Node[]|string): IScope;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction): IAugmentedJQuery;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
}

export interface IScope extends IRootScopeService {}

export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
    [key: string]: string;
  };
  link?: IDirectiveLinkFn|IDirectivePrePost;
  name?: string;
  require?: DirectiveRequireProperty;
  replace?: boolean;
  require?: Directiv...
Promise<string>;

export type IController = string | IInjectable;

export interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): boolean;
  (controllerName: string, locals?: any): boolean;
  (controller: IController, locals?: any): boolean;
}

export interface IInjectorService {
  get(key: string): any;
  has(key: string): boolean;
}

export interface IIntervalService {
  (func: Function, delay: number, count?: number, invokeApply?: boolean, ...args: any[]): Promise<any>;
  cancel(promise: Promise<any>): boolean;
}

export interface ITestabilityService {
  findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
}

export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $setViewValue(value: any): void;
}

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[]?, config?: IAngularBootstrapConfig) => IInjectorService,
  module: (prefix: string, dependencies?: string[]) => IModule,
  element: (e: string | Element | Document | IAugmentedJQuery) => IAugmentedJQuery,
  cleanData: (nodes: Node[] | NodeList) => void;
  injector: (modules: Array<(string | IInjectable)[]?), strictDi?: boolean) => IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularGLOBALS` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
// (see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
    angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<(string | IInjectable)[]?), strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = (e, modules, config?) =>
    angular.resumeBootstrap(e, modules, config);

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';
export const $window: typeof angular.$window = window;

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

// Open Source Used In MSX SD-WAN Service Pack 4.0.0  18506


export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

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 */

/**
 * A `PropertyBinding` represents a mapping between a property name
 * and an attribute name. It is parsed from a string of the form
 * `"prop:attr"` or simply `"propAndAttr"` where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `\(${this.attr}\)`;
    this.bracketParenAttr = `\[${this.attr}\]`;
    const CamelCaseAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on\${CamelCaseAttr}`;
    this.bindAttr = `bind\${CamelCaseAttr}`;
    this.bindonAttr = `bindon\${CamelCaseAttr}`;
  }
}

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 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):[-_]/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /:[-_]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('\n') [0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

export function validateInjectionKey($injector: IInjectorService,
    downgradeModule: string, injectionKey: string, attemptedAction: string): void {
  const upgradeAppType = getUpgradeAppType($injector);
  const downgradedModuleCount = getDowngradedModuleCount($injector);
  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
    case UpgradeAppType.Static:
      if (downgradedModuleCount > 0) {
        throw new Error('You should not specify a value for more than one Angular module (via dynamic).');
      }
      break;
    case UpgradeAppType.Lite:
      if (downgradedModuleCount > 1) {
        throw new Error('You should not specify a value for more than one Angular module (via lite).');
      }
      break;
    case UpgradeAppType.None:
      throw new Error('You should not specify a value for a non-downgraded module.');
    default:
      throw new Error('Unexpected upgrade app type specified.');
  }
}

UpgradeAppType.None;

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export function validateInjectionKey($injector: IInjectorService,
    name: string): void {
  if ($injector.has(name)) {
    throw new Error('Already defined as an injection binding.');
  }
}

UpgradeAppType.None;

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}
throw new Error(`Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.\n` +
      `Did you forget to downgrade an Angular module or include it in the AngularJS 'application'?\n`);

if (!$injector.has(injectionKey)) {
  throw new Error(`\n      ` +
      `Error while $injector.has($injectionKey): Unable to find the specified downgraded module.\n`);
    } else {
      attemptAction(injectionKey);
    }

  }

  if (!$injector.has(injectionKey)) {
    throw new Error(`\n      ` +
    `Error while $injector.has($injectionKey): Unable to find the specified downgraded module.\n`);
  }

  break;
}

default:

  throw new Error(`\n      ` +
  `Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.\n` +
  `
      `Did you forget to downgrade an Angular module or include it in the AngularJS 'application'?\n`);

  }
}

export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve !:
  (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  reject !: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an `ngUpgrade` app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule('')` (a.k.a. `ngUpgrade`-lite ).
  LazyModuleRef,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  LazyModuleRef,

  // App using `@angular/upgrade/static` with `UpgradeModule`.
  LazyModuleRef,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite ).
  Dynamic,

  // App NOT using `@angular/upgrade`. (This should never happen in an `ngUpgrade` app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule('')` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App NOT using `@angular/upgrade`. (This should never happen in an `ngUpgrade` app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule('')` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App NOT using `@angular/upgrade`. (This should never happen in an `ngUpgrade` app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule('')` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App NOT using `@angular/upgrade`. (This should never happen in an `ngUpgrade` app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule('')` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App NOT using `@angular/upgrade`. (This should never happen in an `ngUpgrade` app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule('')` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
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  // App NOT using `@angular/upgrade`. (This should never happen in an `ngUpgrade` app.)
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  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`.
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using `@angular/upgrade/static` with `downgradeModule('')` (a.k.a. `ngUpgrade`-lite ).
  Static,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,
this.subscribeToOutput(output, attrs[bindonAttr], true);  
}  
if (attrs.hasOwnProperty(bracketParenAttr)) {
  this.subscribeToOutput(output, attrs[bracketParenAttr], true);  
}  
if (attrs.hasOwnProperty(output.onAttr)) {
  this.subscribeToOutput(output, attrs[output.onAttr]);  
}  
if (attrs.hasOwnProperty(output.parenAttr)) {
  this.subscribeToOutput(output, attrs[output.parenAttr]);  
}
  }

  private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new Error('Expression "$expr" is not assignable!');
    }
    const emitter = this.component[output.prop] as EventEmitter<any>;
    if (emitter) {
      emitter.subscribe({
        next: isAssignment ? (v: any) => setter(this.scope, v) :
                             (v: any) => getter(this.scope, {'$event': v})
      });
    } else {
      throw new Error('Missing emitter '$output.prop') on component
    }
  }

  registerCleanup() {
    const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
    const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
    let destroyed = false;

    this.element.on('$destroy', () => this.componentScope.$destroy());
    this.componentScope.$on('$destroy', () => {
      if (!destroyed) {
        destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
        destroyComponentRef();
      }
    });
  }

  getInjector(): Injector { return this.componentRef.injector; }

  private updateInput(prop: string, prevValue: any, currValue: any) {
    if (this.implementsOnChanges) {
      this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
    }

    this.inputChangeCount++;
    this.component[prop] = currValue;
  }

  groupProjectableNodes() {
    let ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents!());
  }

  /**
   * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
   */
  export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
    const projectableNodes: Node[][] = [];
    let wildcardNgContentIndex: number; = -1;

    for (let i = 0; i < ngContentSelectors.length; i++) {
      projectableNodes[i] = [];
      for (let j = 0; j < nodes.length; j++) {
        const node = nodes[j];
        const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
        if (ngContentIndex !== null) {
          projectableNodes[ngContentIndex].push(node);
        }
      }
    }

    return projectableNodes;
  }

  function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
    const ngContentIndices: number[] = [];
    let wildcardNgContentIndex: number = -1;

    for (let i = 0; i < ngContentSelectors.length; i++) {
      const selector = ngContentSelectors[i];
      if (selector === '*') {
        wildcardNgContentIndex = i;
      } else {
        if (matchesSelector(element, selector)) {
          ngContentIndices.push(i);
        }
      }
    }

    ngContentIndices.sort();

    if (wildcardNgContentIndex !== -1) {
      ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : undefined;

    return null;
  }

  function matchesSelector(el: any, selector: string): boolean {
    if (!_matches) {
      const elProto = <any>Element.prototype;
      _matches = elProto.matches || elProto.matchesSelector ||
        elProto.mozMatchesSelector || elProto.msMatchesSelector ||
        elProto.oMatchesSelector || elProto.webkitMatchesSelector;
    }
    return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
  }

  /**
   * @license
   * Copyright Google Inc.
   * All Rights Reserved.
   *
   * Use of this source code is governed by an MIT-style license that can be found
   * in the LICENSE file at https://angular.io/license
   */

  import {isFunction} from './util';

  export interface Thenable<T> { then(callback: (value: T) => any): any; }

  export function isThenable<T>(obj: unknown): obj is Thenable<T> {
    return !!obj && isFunction((obj as any).then);
  }

  /**
   * Synchronous, promise-like object.
   */
  export class SyncPromise<T> {
    protected value: T|undefined;
    private resolved = false;
    private callbacks: ((value: T) => unknown)[] = [];

    static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
      const aggrPromise = new SyncPromise<T>();
      let resolvedCount = 0;
      const results: T[] = [];
      const resolve = (idx: number, value: T) => {
        results[idx] = value;
        if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
      };

      valuesOrPromises.forEach((v, idx) => {
        if (isThenable(v)) {
          p.then(v => resolve(idx, v));
        } else if (resolve(resolve, p, i) === undefined) return;
      });

      return aggrPromise;
    }

    constructor(promise: Thenable<T>) {
      const resolvedPromise = promise.then(v => resolve(v));
      resolvedPromise.then(() => this.resolve());
      resolvedPromise.then(() => this.reject());
    }

    resolve<T>(value: T) {
      if (this.resolved) return;
      this.resolved = true;
      this.callbacks.forEach(cb => cb(value));
    }

    reject<T>(error: any) {
      if (this.resolved) return;
      this.resolved = true;
      this.callbacks.forEach(cb => cb(error));
    }
  }

```typescript
  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;
    this.value = value;
    this.resolved = true;
    // Run the queued callbacks.
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
    }
  }
}
```

```typescript
import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, InjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {DowngradeComponentAdapter} from './downgrade_component_adapter';
import {SyncPromise, Thenable} from './promise_util';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 * This helper function returns a factory function to be used for registering an AngularJS wrapper directive for a `downgrading` Angular component. A helper function that allows an Angular component to be used from AngularJS.
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.
 *
 * ```typescript
 * import {DowngradeComponentAdapter} from '@angular/core';
 * import {SyncPromise, Thenable} from 'ng2-upgrade';
 * 
 * export class Ng2HeroesComponent {
 *   constructor(private downgradeAdapter: DowngradeComponentAdapter) {
 *     this.downgradeAdapter.downgradeComponent(ng2Heroes); // Downgraded component
 *   }
 * 
 *   @Input()
 *  Heroes: IHeroes;
 *
 *   @Output()
 *  HeroesChanged: () => void;
 * 
 *   @ViewChild('heroes') heroesElement: ElementRef;
 * 
 *   @HostListener('input', ['$event'])
 *   handleInputChange(event: any) {
 *     this.heroesElement.nativeElement.value = event.target.value;
 *     this.HeroesChanged();
 *   }
 * 
 *   @HostListener('blur', ['$event'])
 *   handleInputBlur(event: any) {
 *     this.heroesElement.nativeElement.value = this.heroesElement.nativeElement.value.trim();
 *     this.HeroesChanged();
 *   }
 * 
 *   @HostListener('change', ['$event'])
 *   handleInputChange2(event: any) {
 *     this.heroesElement.nativeElement.value = event.target.value;
 *     this.HeroesChanged();
 *   }
 * 
 *   @HostListener('focus', ['$event'])
 *   handleInputFocus(event: any) {
 *     this.heroesElement.nativeElement.value = this.heroesElement.nativeElement.value.trim();
 *     this.HeroesChanged();
 *   }
 * 
 *   @HostListener('mouseout', ['$event'])
 *   handleInputBlur2(event: any) {
 *     this.heroesElement.nativeElement.value = this.heroesElement.nativeElement.value.trim();
 *     this.HeroesChanged();
 *   }
 * ```
 *
 * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](https://docs.angularjs.org/guide/upgrade#using-angular-components-from-angularjs-code).
 *
 * @param info contains information about the Component that is being downgraded:
 * - `component: Type<any>`: The type of the Component that will be downgraded
 * - `downgradedModule?: string`: The name of the downgraded module (if any) that the component "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose `*` corresponding Angular module will be bootstrapped, when the component needs to be instantiated. (This option is only necessary when using `downgradeModule()` to downgrade more than one `*` Angular module.)
 * - `propagateDigest?: boolean`: Whether to perform change detection on the component on every `*` change detection event.
 *
 * @returns a factory function that can be used to register the component in an AngularJS module.
 *
 * @publicApi
 */
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
  const directiveFactory:
      IAnnotatedFunction = function(
    // When using `downgradeModule()`, we need to handle certain things specially. For example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be run
    //   inside the Angular zone.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the Angular zone.
    // - NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    //   inside the Angular zone (except if explicitly escaped, in which case we shouldn't)
    //   force it back in
    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    const wrapCallback: <T>(cb: () => T) => typeof cb = un
  
```
NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
let ngZone: NgZone;

When downgrading multiple modules, special handling is needed when injectors
const hasMultipleDowngradedModules =

isNgUpgradeLite && (getDowngradedModuleCount(Sinjector) > 1);

return {
  restrict: 'E',
  terminal: true,
  require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
  link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {

    // We might have to compile the contents asynchronously, because this might have been
    // triggered by `UpgradeNg1ComponentAdapterBuilder`,
    before the Angular templates have
    been compiled;
    const ngModel: INgModel =
    required[1];
    const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
    let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
    let ranAsync = false;

    if (!parentInjector || hasMultipleDowngradedModules) {
      const lazyModuleRefKey = `${LAZY_MODULE_REF}${getModuleName infos_downgradedModule}';
      const attemptedAction = `instantiating component '${getTypeName(info.component)}`;

      validateInjectionKey($injector, info.downgradedModule, lazyModuleRefKey, attemptedAction);

      const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
      moduleInjector =
      lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
    }

    // Notes:
    //
    // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
    // the same instance,
    // but that is irrelevant);
    // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
    //   be on the same tree as the `NgModule` that declares this downgraded component;
    // - `finalParentInjector` is used for all other injection purposes.

    // Note that Angular knows to only traverse the
    // component-tree part of that injector,
    // when looking for an injectable and then switch to the module
    // injector.
    // There are basically three cases:
    // - If there is no parent component (thus no
    //   `parentInjector`), we bootstrap the downgrade
    //   `NgModule` and use its injector as both
    //   `finalModuleInjector` and `finalParentInjector`.
    // - If there is a parent component (and thus a
    //   `parentInjector`) and we are sure that it
    //   belongs to the same `NgModule` as this downgraded component
    // (e.g. because there is only one
    //   downgraded module, we use that `parentInjector` as both
    //   `finalModuleInjector` and `finalParentInjector`.
    // - If there is a parent component, but it may belong
to a different `NgModule`, then we
    //   use the `parentInjector` as `finalParentInjector` and this downgraded
    //   component
    //   declaring `NgModule`'s injector as `finalModuleInjector`.

    // Note 1: If the
    // `NgModule` is already bootstrapped, we just get its injector (we don't
    // bootstrap again);
    // Note 2: It is possible that (while there are multiple downgraded modules) this
    // downgraded component and its parent component both belong to the same
    // `NgModule`.
    // In that case, we could have used the
    // `parentInjector` as both
    // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
    // treating this case as if they belong to different `NgModule`s. That doesn't
    // really affect
    // anything, since `parentInjector` has `moduleInjector` as ancestor
    // and trying to resolve
    // `ComponentFactoryResolver` from either one will return
    // the same instance.

    // If there is a parent component, use its injector as parent injector.
    // If this is a `top-level` Angular component, use the module
    Injector.
    const finalParentInjector = parentInjector
    || moduleInjector;

    // If this is a `top-level` Angular component or the parent component may belong to a different `NgModule`, use the module
    injector for module-specific dependencies.
    // If there is a parent component that belongs to the same
    // `NgModule`, use its injector.
    // If there is a parent component that belongs to a different
    // `NgModule`, use its injector.
    // If there is a parent component that belongs to the same
    // `NgModule`, use its injector.
    // If there is a parent component that belongs to a different
    // `NgModule`, use its injector.
    const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
      // Retrieve `ComponentFactoryResolver`
      from the injector tied to the `NgModule` this
      // component belongs to.
    component
    ComponentFactoryResolver: ComponentFactoryResolver =
    moduleInjector.get(ComponentFactoryResolver);

    const componentFactory: ComponentFactory<any> =
    componentFactoryResolver.resolveComponentFactory(info.component) !;

    if (!componentFactory) {
      throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
    }

    const injectorPromise = new ParentInjectorPromise(element);
    const facade = new
    DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
componentFactory, wrapCallback);\n
        facade.createComponent(projectableNodes);
        facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
        facade.setupOutputs();
        facade.registerCleanup();

        injectorPromise.resolve(facade.getInjector());

        if (ranAsync) {
          scope.$evalAsync(() => {});
          // If this is run async, it is possible
          // that it is not run inside a
          // digest and initial input values will not be detected.
        }
      }
    };

    const downgradeFn = isNgUpgradeLite
      ? doDowngradeFn
      : doDowngradeFn pfInjector: Injector, mInjector: Injector) {
      if (!ngZone) {
        ngZone = pInjector.get(NgZone);
      }

      wrapCallback(() => doDowngradeFn pInjector, mInjector));
    }

    // NOTE:\n    // Not using 'ParentInjectorPromise.all()' (which is inherited from 'SyncPromise'),
    // because\n    // Closure Compiler (or some related tool) complains:\n
    SyncPromise.all([finalParentInjector, finalModuleInjector])
      .then(([pInjector, mInjector]) =>
        downgradeFn(pInjector, mInjector));

    ranAsync = true;
  }

  // bracket-notation because
  // of closure - see #14441
  directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
  return directiveFactory;
}

/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's `$compile`.
 */
class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY);

  constructor(private element: IAugmentedJQuery) {
    super();

    // Store the promise on the element.
    element.data(this.injectorKey, this);
  }

  resolve(injector: Injector): void {
    // Store the real injector on the element.
    element.data(this.injectorKey, injector);

    // Release the element to prevent memory leaks.
    this.element = null;

    // Resolve the promise.
    super.resolve(injector);
  }
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function that provides access to the Angular
 * service identified by the
 * `token` parameter.
 *
 * **Examples**
 *
 * First ensure that the service to be downgraded is provided in an `NgModule` that will be part of the upgrade application. For example, let's assume we have
 * defined `HeroesService`:
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * @example upgrade/static/ts/full/module.ts
 * ```
 *
 * and that we have included this in our upgrade app `NgModule`:
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * ```
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module.
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * ```
 *
 * Inside an AngularJS component's controller we can get hold of the downgraded service via the name we gave when downgrading:
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * ```
 *
 * When using `downgradeModule()` , downgraded injectables will not be available until the Angular
 * module that provides them is instantiated. In order to be safe, you need to ensure that the
 * downgraded injectables are not used anywhere _outside_ the part of the app where it is
 * guaranteed that their module has been instantiated.
 *
 * For example, it is _OK_ to use a downgraded service in an upgraded component that is only used * from a downgraded Angular component provided by the same Angular
 * module as the injectable, but it is _not_ OK to use it in an AngularJS component that may be used independently of Angular.
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * ```
 *
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular
 * module.)
downgradeInjectable(token: any, downgradedModule: string = ""): Function {
  const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
  const InjectableName = isFunction(token) ? getTypeName(token) : String(token);
  const attemptedAction = `instantiating injectable '${InjectableName}'`;
  validateInjectionKey(injector, downgradedModule, injectorKey, attemptedAction);
  return injector.get(token);
}

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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 *
 * Entry point for all public APIs of the common package.
 */

import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction} from '../src/common/src/util';

import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

let moduleUid = 0;

/**
 * @description
 *
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand"

NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to
  // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module
  // injector, but AngularJS only supports a single tree and should always check the module injector.
  get(token: any, notFoundValue?: any): any {
    if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
      return notFoundValue;
    }

    return this.modInjector.get(token, notFoundValue);
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {IInjectorService} from '../../src/common/src/angular1';

// We have to do a little dance to get the ng1 injector into the module injector.

// We store the ng1 injector so that the provider in the module injector can access it
// Then we `get` the ng1 injector from the module injector, which triggers the provider to read
// the stored injector and release the reference

let tempInjectorRef: IInjectorService|null = null;
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}
export function injectorFactory() {
  if (!tempInjectorRef) {
    throw new Error('Trying to get the AngularJS injector before it being set.');
  }

  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;  // clear the value to prevent memory leaks
  return injector;
}

export function rootScopeFactory(i: IInjectorService) {
  return i.get('$rootScope');
}

export function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}

export function parseFactory(i: IInjectorService) {
  return i.get('$parse');
}

export const angular1Providers = [
  {provide: '$injector', useFactory: injectorFactory, deps: []},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: '$compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}
];

export class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to
  // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module
  // injector, but AngularJS only supports a single tree and should always check the module injector.
  get(token: any, notFoundValue?: any): any {
    if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
      return notFoundValue;
    }

    return this.modInjector.get(token, notFoundValue);
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {IInjectorService, ɵNOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR} from '@angular/core';

class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to
  // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module
  // injector, but AngularJS only supports a single tree and should always check the module injector.
  get(token: any, notFoundValue?: any): any {
    if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
      return notFoundValue;
    }

    return this.modInjector.get(token, notFoundValue);
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {IInjectorService, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction} from '../src/common/src/util';

import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

let moduleUid = 0;

/**
 * @description
 *
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand"
(possibly lazily) when a `@link downgradeComponent downgradeComponent` needs to be * instantiated. * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that * support AOT compilation. * It allows loading/bootstrappping the Angular part of a hybrid application lazily and not having to * pay the cost up-front. For example, you can have an AngularJS application that uses Angular for * specific routes and only instantiate the Angular modules if/when the user visits one of these * routes. * The Angular module will be bootstrapped once (when requested for the first time) and the same module * reference will be used from that point onwards. * `downgradeModule()` requires either an `NgModuleFactory` or a function: * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module * using `platformBrowser`'s `{ @link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory()}`. * - `Function`: If you pass a function, it is expected to return a promise resolving to an `NgModuleRef`. The function is called with an array of extra `{ @link StaticProvider Providers}` that are expected to be available from the returned `NgModuleRef`'s `Injector`. * `downgradeModule()` returns the name of the created AngularJS wrapper module. You can use it to * declare a dependency in your main AngularJS module. * For more details on how to use `downgradeModule()` see [Upgrading for Performance](guide/upgrade-performance). * @usageNotes * Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to * build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be * available until the downgraded module has been bootstrapped, i.e. by instantiating a downgraded module * component. * - `<div class="alert is-important">` * You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application. * Use one or the other. * - `div>` * `\`### Differences with `UpgradeModule` * Besides their different API, there are two important internal differences between * `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid applications: * What this means is that applications using `UpgradeModule` will run change detection more * frequently in order to ensure that both frameworks are properly notified about possible changes. * This will inevitably result in more change detection runs than necessary. * `downgradeModule()` does not automatically run an * [`$digest()`](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest) when changes are * detected in the Angular part of the application. * `downgradeModule()` does not bootstrap the main AngularJS module * inside the `{ @link NgZone Angular zone }`. * Unlike `UpgradeModule`, `downgradeModule()` does not automatically run an * `$digest()` when changes are detected in the Angular part of the application. * If you want some injectables to be shared among all downgraded modules, you can provide them as * `StaticProvider`'s, when creating the `PlatformRef` (e.g. via `platformBrowser` or * `platformBrowserDynamic`). * You can manually trigger a change detection run in AngularJS using * `[scope.$apply(...)]` or an * `[scope.$digest()](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest)` when changes are detected in the Angular part of the application. * You can manually trigger a change detection run in Angular using `{ @link NgZone#run(` * Things to keep in mind, when downgrading multiple modules: * It is possible to downgrade multiple modules and include them in an AngularJS application. * That case, each downgraded module will be bootstrapped when an associated downgraded component or * injectable needs to be instantiated. * Things to keep in mind, when downgrading multiple modules: * Each downgraded component/injectable needs to be explicitly associated with a downgraded module. * Downgrading multiple modules is similar to downgrading a single module. * If you want some injectables to be shared among all downgraded modules, you can provide them as * `StaticProvider`'s, when creating the `PlatformRef` (e.g. via `platformBrowser` or * `platformBrowserDynamic`). * When using `{ @link PlatformRef#bootstrapmodule `bootstrapModule()`)` or an * `{ @link PlatformRef#bootstrapmodulefactory `bootstrapModuleFactory()`)` to bootstrap the * downgraded modules, each one is considered a `"root"` module. As a consequence, a new instance * will be created for every injectable provided in `"root"` (via `*`)
is not your intention, you can have a shared module (that will act as act as the `\root\` module) and create all
downgraded modules using that module's injector: ```

``` is not your intention, you can have a shared module (that will act as act as the `\root\` module) and create all
downgraded modules using that module's injector: ```

```
IAugmentedjQuery): string|Promise<string> {
  if (directive.template !== undefined) {
    return getOrCall<string>(directive.template, $element);
  } else if (directive.templateUrl) {
    const templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
    const url = getOrCall<string>(directive.templateUrl, $element);
    if (template !== undefined) {
      return template;
    } else if (!fetchRemoteTemplate) {
      throw new Error('loading directive templates asynchronously is not supported');
    } else {
      throw new Error('Directive '${directive.name}' is not a component, it is missing template.');
    }
  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {'$scope': $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    this.$element.data ![controllerKey(this.directive.name !), controller];
    return controller;
  }

  compileTemplate(template?: string): ILinkFn {
    if (template === undefined) {
      template = UpgradeHelper.getTemplate($injector, this.directive, false, this.$element) as string;
    }

    return this.compileHtml(template);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }
    $scope.$destroy();

    // Clean the jQuery/jqLite data on the component+child elements.
    // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
    angularElement.cleanData([this.element]);
    angularElement.cleanData(this.element.querySelectorAll('*'));
  }

  prepareTransclusion(): ILinkFn|undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();
    const $template = contentChildNodes;

    if (transclude) {
      const slots = Object.create(null);

      if (typeof transclude === 'object') {
        $template = 

        Object.keys(transclude).forEach(slotName => {
          let selector = transclude[slotName];
          const optional = selector.charAt(0) === '?';
          selector = optional ? selector.substring(1) : selector;

          slots[slotName] = null;
          filledSlots[slotName] = optional;
          const nodes = slots[slotName];
          slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
            return cloneAttach(nodes, scope);
          };
        });

        Object.keys(slots).forEach(slotName => {
          const nodes = slots[slotName];
          const selector = optional ? selector.substring(1) : selector;
          Object.keys(nodes).forEach(slotName => {
            filledSlots[slotName] = true;
            slots[slotName] = slots[slotName] || [];
            slots[slotName].push(node);
          });

          const slots = Object.create(null);
          slots[slotName] = null;
          if (transclude) {
            if (typeof transclude === 'object') {
              $template = 
            } else {
              throw new Error('Required transclusion slot '${slotName}'}
          }
        });
      }

      Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
        const nodes = slots[slotName];
        const selector = optional ? selector.substring(1) : selector;
        Object.keys(nodes).forEach(slotName => {
          filledSlots[slotName] = true;
          slots[slotName] = slots[slotName] || [];
          slots[slotName].push(node);
        });
      });
    }
  }

  compileHtml(template: string): string {
    let html = template.replace(/\$\{[^}]\}/g, (match, expr) => {
      const nativeExpr = expr.replace(/\$/g, '');// Escape the '$' character
      const compiledExpr = new Function('context', `return ${nativeExpr}`)(this.$element); // Compile the expression
      return compiledExpr.toString(); // Return the compiled expression
    });
    return html;
  }
}

https://github.com/jquery/jquery/blob/743cb2d8553267f957f71ea7248377915613fd9/src/manipulation.js#L223
https://github.com/angular/angular.js/blob/26dec5f80692a3d22f4b2ab70d864d688c82/src/jqLite.js#L306-L312
https://github.com/angular/angular.js/blob/26dec5f80692a3d22f4b2ab70d864d688c82/src/Angular.js#L1911-L1924

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attachChildrenFn.$$slots = slots;

      // AngularJS v1.6+ ignores empty or whitespace-only transcluded text
      nodes. But AngularJS
      // removes all text content after the first interpolation and updates it later, after
      // evaluating the expressions. This would result in AngularJS failing to recognize text
      // content instead. To avoid this issue, we add
      // to empty
text nodes (which can only be a result of Angular removing their initial content).

      // NOTE: Transcluded text
      content that starts with whitespace followed by an interpolation
      // will still fail to be detected by AngularJS
      // Stemplate.forEach(node => {
      if (node.nodeType === Node.TEXT_NODE && !node.nodeValue)
        node.nodeValue = '\u200C';
      })

    return attachChildrenFn;
  }

  resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);

    if (controllerInstance && this.directive.bindToController &&
      isMap(directiveRequire)) {
      const requiredControllersMap = requiredControllers as{

        Object.keys(requiredControllersMap).forEach(key => {
          controllerInstance[key] = requiredControllersMap[key];
        });

        return requiredControllersMap;
    }

    return requiredControllers;
  }

  private compileHtml(html: string): ILinkFn {
    this.element.innerHTML = html;
    return this.$compile(this.element.childNodes);
  }

  private extractChildNodes(): Node[] {
    const childNodes: Node[] = [];
    let childNode: Node|null;

    while (childNode = this.element.firstChild) {
      this.element.removeChild(childNode);
      childNodes.push(childNode);
    }

    return childNodes;
  }

  private getDirectiveRequire(): DirectiveRequireProperty {
    const require = this.directive.require || (this.directive.controller &&
      this.directive.name) !== 'object' || isMap(require) ||
      Object.keys(require).forEach(key => {
        const value = require[key];
        const match = value.match(REQUIRE_PREFIX_RE);

        if (match) {
          const name = value.substring(match[0].length);
          if (name) {
            require[key] = match[0] + key;
          } else if (typeof require === 'object') {
            const inheritType = match[1] || match[3];

            const name = require.substring(match[0].length);
            const isOptional = !!match[2];
            const searchParents = !!inheritType;

            const ctrlKey = controllerKey(name);
            const elem = searchParents ? 
              this.$element.inheritedData(ctrlKey) : elem.data(ctrlKey);

            if (!value) {
              throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
            }
            return elem[value];
          }
        } else {
          throw new Error('Unrecognized \'$\' require syntax on upgraded directive \'$\{this.name\}':
            \'$\{require\}'
          );
        }
      });

      return requiredControllers;
    }

    return processor.$compile(processor.$element(?);

    // NOTE: Only works for \'\' != null
    if (property) {
      return processor.$compile(processor.$element(?);

      // Unrecognized \'$\' require syntax on upgraded directive \'$\{this.name\}':
      // \'$\{require\}'
    }

    return processor.$compile(processor.$element(?);

    // Unrecognized \'$\' require syntax on upgraded directive \'$\{this.name\}':
    // \'$\{require\}'
  }
}

function getOrCall<T>(property: T | Function, ...args: any[]) {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for \'\' != null
if (isMap(processor.$element(?);

  // Unrecognized \'$\' require syntax on upgraded directive \'$\{this.name\}':
  // \'$\{require\}'
    return processor.$compile(processor.$element(?);

    // Unrecognized \'$\' require syntax on upgraded directive \'$\{this.name\}':
    // \'$\{require\}'
true\n};\n\nclass Bindings {\n twoWayBoundProperties: string[] = [];\n twoWayBoundLastValues: any[] = [];\n\n
expressionBoundProperties: string[] = [];\n\n propertyToOutputMap: {[propName: string]: string} =
{};\n}\n\n/**\n * @description\n *\n * A helper class that allows an AngularJS component to be used from
Angular.\n *\n * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that
support AOT compilation.*\n *\n * This helper class should be used as a base class for creating Angular directives\n
* that wrap AngularJS components that need to be \"upgraded\".\n *\n * @usageNotes\n * ### Examples\n *\n *
Let's assume that you have an AngularJS component called `ng1Hero` that needs\n * to be made available in
Angular templates.\n *\n * {@example upgrade/static/ts/full/module.ts region=\"ng1-hero\"}\n *\n * We must create
a `Directive` that will make this AngularJS component\n * available inside Angular templates.\n *\n * {@example
upgrade/static/ts/full/module.ts region=\"ng1-hero-wrapper\"}\n *\n * In this example you can see that we must
derive from the `UpgradeComponent`\n * base class but also provide an {@link Directive `@Directive`} decorator.
This is\n * because the AOT compiler requires that this information is statically available at\n * compile time.\n *\n
* Note that we must do the following:\n * * specify the directive's selector (`ng1-hero`)\n * * specify all inputs and
outputs that the AngularJS component expects\n * * derive from `UpgradeComponent`\n * * call the base class from
the constructor, passing\n * * the AngularJS name of the component (`ng1Hero`)\n * * the `ElementRef` and
`Injector` for the component wrapper\n *\n * @publicApi\n */\nexport class UpgradeComponent implements
OnInit, OnChanges, DoCheck, OnDestroy {\n private helper: UpgradeHelper;\n\n private $injector:
IInjectorService;\n\n private element: Element;\n private $element: IAugmentedJQuery;\n private
$componentScope: IScope;\n\n private directive: IDirective;\n private bindings: Bindings;\n\n //
TODO(issue/24571): remove '!'.\n private controllerInstance !: IControllerInstance;\n // TODO(issue/24571):
remove '!'.\n private bindingDestination !: IBindingDestination;\n\n // We will be instantiating the controller in the
`ngOnInit` hook, when the\n // first `ngOnChanges` will have been already triggered. We store the\n //
`SimpleChanges` and \"play them back\" later.\n // TODO(issue/24571): remove '!'.\n private pendingChanges !:
SimpleChanges | null;\n\n // TODO(issue/24571): remove '!'.\n private unregisterDoCheckWatcher !: Function;\n\n
/**\n * Create a new `UpgradeComponent` instance. You should not normally need to do this.\n * Instead you
should derive a new class from this one and call the super constructor\n * from the base class.\n *\n *
{@example upgrade/static/ts/full/module.ts region=\"ng1-hero-wrapper\" }\n *\n * * The `name` parameter
should be the name of the AngularJS directive.\n * * The `elementRef` and `injector` parameters should be
acquired from Angular by dependency\n * injection into the base class constructor.\n */\n constructor(private
name: string, private elementRef: ElementRef, private injector: Injector) {\n this.helper = new
UpgradeHelper(injector, name, elementRef);\n\n this.$injector = this.helper.$injector;\n\n this.element =
this.helper.element;\n this.$element = this.helper.$element;\n\n this.directive = this.helper.directive;\n
this.bindings = this.initializeBindings(this.directive);\n\n // We ask for the AngularJS scope from the Angular
injector, since\n // we will put the new component scope onto the new injector for each component\n const
$parentScope = injector.get($SCOPE);\n // QUESTION 1: Should we create an isolated scope if the scope is only
true?\n // QUESTION 2: Should we make the scope accessible through `$element.scope()/isolateScope()`?\n
this.$componentScope = $parentScope.$new(!!this.directive.scope);\n\n this.initializeOutputs();\n }\n\n
ngOnInit() {\n // Collect contents, insert and compile template\n const attachChildNodes: ILinkFn|undefined =
this.helper.prepareTransclusion();\n const linkFn = this.helper.compileTemplate();\n\n // Instantiate controller\n
const controllerType = this.directive.controller;\n const bindToController = this.directive.bindToController;\n if
(controllerType) {\n
this.controllerInstance = this.helper.buildController(controllerType,
this.$componentScope);\n } else if (bindToController) {\n
throw new Error(\n
`Upgraded directive
'${this.directive.name}' specifies 'bindToController' but no controller.`);\n }\n\n // Set up outputs\n
this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;\n
this.bindOutputs();\n\n // Require other controllers\n const requiredControllers =\n
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);\n\n // Hook: $onChanges\n if
(this.pendingChanges) {\n
this.forwardChanges(this.pendingChanges);\n
this.pendingChanges = null;\n
}\n\n // Hook: $onInit\n if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {\n

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import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../../src/common/src/util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide
 * AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT
 * compilation.
 * The 'upgrade/static' package contains helpers that allow AngularJS and Angular components
 * to be used together inside a hybrid upgrade application, which supports AOT compilation.
 * Specifically, the classes and functions in the 'upgrade/static' module allow the following:
 * 1. Creation of an Angular directive that wraps and exposes an AngularJS component so
 *    that it can be used in an Angular template. See `UpgradeComponent`.
 * 2. Creation of an AngularJS directive that wraps and exposes an Angular component so
 *    that it can be used in an AngularJS template. See `downgradeComponent`.
 * 3. Creation of an Angular root injector provider that wraps and exposes an AngularJS
 *    service so that it can be injected into an Angular context. See
 *    `UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS service` below.
 * 4. Creation of an AngularJS service that wraps and exposes an Angular injectable so
 *    that it can be injected into an AngularJS context. See `downgradeInjectable`.
 * 5. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 *    coexisting in a single application. See
 *    `UpgradeModule#bootstrap` below.
 * When reasoning about how a hybrid application works it is useful to have a mental model which
 * describes what is happening and explains what is happening at the lowest level.
 * 1. There are two independent frameworks running in a single application, each framework treats
 * the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework
 * instantiated the element is the owner. Each framework only
 * updates/interacts with its own
 * DOM elements and ignores others.
 * 2. AngularJS components always execute inside the AngularJS framework codebase regardless of
 * where they are instantiated.
 * 3. AngularJS directives always execute
 * inside the AngularJS framework codebase regardless of
 * 4. Angular components always execute inside the Angular framework codebase regardless of
 * where they are instantiated.
 * 5. An AngularJS component can be in an Angular component. This is achieved by
 * defining an Angular directive, which bootstraps the AngularJS component at its location
 * in the DOM. See `UpgradeComponent`.
 * 6. An Angular component can be in an AngularJS component. This is achieved by
 * defining an AngularJS directive, which bootstraps the Angular component at its location
 * in the DOM. See `downgradeComponent`.
 * 7. Whenever an
 * component is instantiated the host element is owned by
 * the framework doing the instantiation. The other framework then instantiates and
 * owns the
 * view for that component.
 * 1. This implies that the component bindings will always follow the
 * semantics of the
 * instantiation framework.
 * 2. The DOM attributes are parsed by the framework that
 * owns the current template. So
 * attributes in AngularJS templates must use kebab-case, while AngularJS
 * templates must use camelCase.
 * 3. However the template binding syntax will always use the Angular
 * style, e.g. square
 * brackets (`[...]`) for property binding.
 * 8. Angular is bootstrapped first; AngularJS is
 * bootstrapped second. AngularJS always owns the root component of the application.
 * The new
 * application is running in an AngularJS, and therefore it no longer needs calls
call
 * `apply()`.
 * The `UpgradeModule` class
 * This class is an `NgModule`, which you import to provide AngularJS core
 * services, and has an instance method used to bootstrap the hybrid upgrade application.
 * Importing this `NgModule` will add providers for the core
 * AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector.
 * The runtime
 * instance of this class contains a `UpgradeModule#bootstrap` method, which you use to
bootstrap the top level AngularJS module onto an element in the
DOM for the hybrid upgrade app. It also contains properties to access the
[AngularJS $injector](https://docs.angularjs.org/api/auto/service/$injector).

### Examples

- Import the `UpgradeModule` into your top level Angular

```typescript
@NgModule({
  providers: [angular1Providers]
})
export class UpgradeModule {
  /**
   * The AngularJS `$injector` for the upgrade application.
   */
  public $injector: any /*angular.IInjectorService*/;
  /**
   * The Angular Injector **/
   * @publicApi
   */

  constructor(
      /** The root `Injector` for the upgrade application. */
      injector: Injector,
      /** The bootstrap zone for the upgrade application */
      public ngZone: NgZone) {
    this.injector = new NgAdapterInjector(injector);
  }

  /**
   * Bootstrap an AngularJS application from this NgModule
   * @param element the element on which to bootstrap the AngularJS
   * application
   * @param [modules] the AngularJS modules to bootstrap for this application
   * @param [config] optional extra AngularJS bootstrap configuration
   */
  bootstrap(
      element: Element, modules: string[] = [],
      config?: any /*angular.IAngularBootstrapConfig*/) {
    const INIT_MODULE_NAME =
      UPGRADE_MODULE_NAME + '.init';

    // Create an ng1 module to bootstrap
    const initModule =
      angularModule(INIT_MODULE_NAME, [])

            .constant(UPGRADE_APP_TYPE_KEY,
          UpgradeAppType.Static)

            .value(INJECTOR_KEY, this.injector)

            .factory(
              LAZY_MODULE_REF,
                [INJECTOR_KEY, (injector: Injector) => ({ injector } as
            LazyModuleRef)

            .config(
              [ITESTABILITY, TESTABILITY],
                ([injector: ITestabilityService],
              $provide: IProvideService, $injector: IInjectorService) => {
                if ($injector.has($TESTABILITY)) {
                  $provide.decorator($TESTABILITY, 
                    [DELEGATE],
                      (testabilityDelegate:
                        ITestabilityDelegate:
                        ITestabilityService) => (fn) => {
                        const originalWhenStable: Function =
                        testabilityDelegate.whenStable;
                        const newWhenStable = function(callback: Function) {
                          return testabilityDelegate.whenStable(fn);
                        };
                        testabilityDelegate.whenStable = newWhenStable;
                        return testabilityDelegate;
                      });
                } else {
                  newWhenStable.bind(testabilityDelegate, callback);
                };
                $provide.decorator($INTERVAL, 
                    [DELEGATE],
                      (intervalDelegate: IIntervalService) => (fn) => {
                        const originalWhenStable: Function =
                        intervalDelegate.whenStable;
                        const newWhenStable = function(callback: Function) {
                          return intervalDelegate.whenStable(fn);
                        };
                        intervalDelegate.whenStable = newWhenStable;
                        return intervalDelegate;
                      });
              });
          };
        
```
the callback in NgZone will\n// cause a `$digest already in progress` error if it’s in the\n// same vm turn.\nsetTimeOut(() => { this.ngZone.run(() => fn(...args)); });\n\n), delay, count, invokeApply, ...pass);\n\n(wrappedInterval as any)[cancel] = intervalDelegate.cancel;\nreturn wrappedInterval;\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n\n);\n
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static.js.map
No license file was found, but licenses were detected in source scan.
result;

    function __importDefault(mod) {
        return (mod && mod.__esModule) ? mod : {
            default: mod
        };
    }

    function noNg() {
        throw new Error('AngularJS v1.x is not loaded!');
    }

    function getAngularJSGlobal() {
        return angular;
    }

    /**
     * A `PropertyBinding` represents a mapping between a property name
     * and an attribute name. It is parsed from a string of the form
     * `\"prop: attr\"`; or simply `\"propAndAttr\"` where the property
     * and attribute have the same identifier.
     */
    var PropertyBinding = /** @class */ (function () {
        function PropertyBinding() {
            this.attr = attr;
            this.parseBinding();
        }
        PropertyBinding.prototype.parseBinding = function () {
            this.bracketAttr = "[" + this.attr + "]";
            this.parenAttr = "(" + this.attr + ")";
            this.bracketParenAttr = "[(" + this.attr + "]\")";
            var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
            this.bindAttr = "\"bind\" + capitalAttr;
this.scope = scope;
this.ngModel = ngModel;
this.parentInjector = parentInjector;
this.injector = injector;
this.$compile = $compile;
this.$parse = $parse;
this.componentFactory = componentFactory;
this.$injector = $injector;
this.groupProjectableNodes = groupProjectableNodes;
this.ngModel = ngModel;
this.parentInjector = parentInjector;
this.componentScope = scope.$new();
this.componentScope.$new();

DowngradeComponentAdapter.prototype.compileContents = function () {
    var _this = this;
    var compiledProjectableNodes = [];
    var linkFns = projectableNodes.map(function (nodes) {
        return _this.$compile(nodes);
    });
    var linkFns = linkFns.forEach(function (linkFn) {
        var compiledProjectableNodes = [];
        _this.element.empty();
        linkFns.forEach(function (linkFn) {
            linkFn(_this.$injector, function (clone) {
                compiledProjectableNodes.push(clone);
            });
        });
        _this.element.append(clone);
    });
    return compiledProjectableNodes;
};

DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
    var providers = [{
        provide: $SCOPE, useValue: this.componentScope
    }];
    var childInjector = core.Injector.create({
        providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'
    });
    this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
    // testability hook is commonly added during component bootstrap in
    // packages/core/src/application_ref.bootstrap.js
    // in downgrade application, component creation will take
    // place here as well as adding the
    // testability hook.
    if (testability) {
        this.componentRef.injector.get(core.TestabilityRegistry)
            .registerApplication(this.componentRef.location.nativeElement, testability);
    }
    hookupNgModel(this.ngModel, this.component);
};

DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
    var _this = this;
    var propagateDigest = propagateDigest === void 0 ? true : propagateDigest;
    var inputs = this.componentFactory.inputs || [];
    var _loop_1 = function (i) {
        var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
        var expr = null;
        if (attrs.hasOwnProperty(input.prop)) {
            var observeFn_1 = (function (prop) {
                var prevValue = INITIAL_VALUE;
                return function (currValue) {
                    // Initially, both
                    _this.updateInput(prop, prevValue, currValue);
                    prevValue = currValue;
                    return _this.updateInput(prop, prevValue, currValue);
                };
            })(input.prop);
            attrs.$observe(input.prop, observeFn_1);
            // Use `$watch()` (in addition to `$observe()` in order to
            // initialize the input in time
            // for `ngOnChanges()` . This is necessary if we are already in a `$digest`,
            // which means that
            // `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
            // callback.
            var unwatch_1 = this.componentScope.$watch(function () {
                unwatch_1 = null;
                observeFn_1(attrs[input.attr]);
            });
            var unwatch_1 = null;
            observeFn_1(attrs[input.attr]);
        } else if (attrs.hasOwnProperty(input.bindAttr)) {
            expr = attrs[input.bindAttr];
        } else if (attrs.hasOwnProperty(input.bracketAttr)) {
            expr = attrs[input.bracketAttr];
        } else if (attrs.hasOwnProperty(input.bindonAttr)) {
            expr = attrs[input.bindonAttr];
        } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
            expr = attrs[input.bracketParenAttr];
        }
        if (expr != null) {
            var watchFn = (function (prop) { return function (currValue, prevValue) {
                return _this.updateInput(prop, prevValue, currValue);
            }; })(input.prop);
            this.componentScope.$watch(expr, watchFn);
        }
    };
    var prototype = function () {
        return _this.changeDetector.detectChanges();
    };
    return prototype;
var inputChanges = { };

var propagateDigest = true;

var unwatch_2 = this.componentScope.$watch(function () { return _this.inputChangeCount; }, this.wrapCallback(function () {
    // Invoke `ngOnChanges()`
    if (_this.implementsOnChanges) {
        var inputChanges = _this.inputChanges;
        _this.inputChanges = {};
        _this.component.ngOnChanges(inputChanges);
    }
    _this.componentScope.$watchDetector.markForCheck();
    // If opted out of propagating digests, invoke change
detection when inputs change
    if (!propagateDigest) {
        detectChanges();
    }
    // If not opted out of propagating digests, invoke change detection on every digest
    if (propagateDigest) {
        this.componentScope.$watch(this.wrapCallback(detectChanges));
    }
    // If necessary, attach the view so that it will be dirty-checked.
    // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.) if (manuallyAttachView || !propagateDigest) {
        unwatch_2 = null;
        var appRef = _this.parentInjector.get(core.ApplicationRef);
        appRef.attachView(_this.componentRef.hostView);
    }
    DowngradeComponentAdapter.prototype.subscribeToOutput = function (output, expr, isAssignment) {
        var _this = this;
        if (isAssignment === void 0) { isAssignment = false; }
        var getter = this.$parse(expr);
        var setter = getter.assign;
        if (isAssignment && !setter) {
            throw new Error("Expression '" + expr + "' is not assignable!");
        }
        var emitter = this.component[output.prop];
        if (emitter) {
            emitter.subscribe({
                next: isAssignment ? function (v) { return setter(_this.scope, v); } :
                        function (v) { return getter(_this.scope, { '$event': v }); }
            });
        } else {
            throw new Error("Missing emitter '" + output.prop + "' on component '" + getTypeName(this.componentFactory.componentType) + "'!");
        }
        DowngradeComponentAdapter.prototype.groupProjectableNodes = function () {
            var ngContentSelectors = this.componentFactory.ngContentSelectors;
            return groupNodesBySelector(ngContentSelectors, this.element.contents());
        }
        return DowngradeComponentAdapter;
    }());
    /**
     * Group a set of DOM nodes into `ngContent` groups, based
on the given content selectors.

```javascript
function groupNodesBySelector(ngContentSelectors, nodes) {
    var projectableNodes = [];
    var wildcardNgContentIndex;
    for (var i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
        projectableNodes[i] = [];
    }
    for (var j = 0, jj = nodes.length; j < jj; ++j) {
        var ngContentIndices = [];
        var wildcardNgContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
        if (ngContentIndex === null) {
            projectableNodes.push(node);
        } else {
            if (matchesSelector(element, selector)) {
                ngContentIndices.push(ngContentIndex);
                ngContentIndices.sort();
            } if (wildcardNgContentIndex !== -1) {
                ngContentIndices.push(wildcardNgContentIndex);
            }
        }
        return ngContentIndices.length ? ngContentIndices[0] : null;
    }
    return ngContentIndices.sort();
}

function findMatchingNgContentIndex(element, ngContentSelectors) {
    var wildcardNgContentIndex;
    for (var i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
        var selector = ngContentSelectors[i];
        if (selector === '*') {
            wildcardNgContentIndex = i;
        } else {
            if (matchesSelector(element, selector)) {
                ngContentIndices.push(i);
            }
        }
        ngContentIndices.sort();
        if (wildcardNgContentIndex !== -1) {
            ngContentIndices.push(wildcardNgContentIndex);
        }
    }
    return wildcardNgContentIndex;
}
```

For more details and examples on downgrading Angular components to AngularJS, please visit the Upgrade guide.

---

**Example:**

We must create an AngularJS directive that wraps the "downgraded" component.

```javascript
function downgradeComponent() {
    return ngContentIndices.length ? ngContentIndices[0] : null;
}
```

---

**Case 1:**

For more details and examples on downgrading Angular components to AngularJS, please visit the Upgrade guide.

**Case 2:**

For more details and examples on downgrading Angular components to AngularJS, please visit the Upgrade guide.

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For more details and examples on downgrading Angular components to AngularJS, please visit the Upgrade guide.
string': The name of the downgraded module (if any) that the component
  * \"belongs to\", as returned by a call to `downgradeModule()`.
  It is the module, whose corresponding Angular module will be bootstrapped, when
  the component needs to be instantiated.
  * `<br/>\n  * This option is only necessary when using `downgradeModule()` to downgrade more than one
  * Angular module.)
  * `- propagatesDigest?: boolean`:
  Whether to perform [ @link ChangeDetectorRef#detectChanges
  * change detection] on the component on every
  * `[$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to \'false\',
  * change detection will still be performed when any of the component's inputs changes.
  * (Default: `true`).

  * `@publicApi`:
  * `function downgradeComponent(info) {
    var directiveFactory = function ($compile, $injector, $parse) {
      // When using `downgradeModule()`, we need to handle certain things specially. For example:
      // - We always need to attach the component view to the `ApplicationRef` for it to be
      //   dirty-checked.
      // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
      //   Angular zone.
      //   NOTE: This is not needed, when using `UpgradeModule`, because `Sdigest()`
      // will be run inside the Angular zone (except if explicitly escaped, in which case we shouldn't
      // force it back in).
      var isNgUpgradeLite = getUpgradeAppType($injector) === 3 /* Lite */;
      var wrapCallback = !isNgUpgradeLite ? function (cb) { return cb; } : function (cb) { return function () { return
        core.NgZone.isInAngularZone() ? cb() : ngZone.run(cb); }; };
      var ngZone;
      // When downgrading multiple modules, special handling is needed wrt injectors:
      var hasMultipleDowngradedModules = lazyModuleRefKey, attemptedAction);
      var lazyModuleRef = $injector.get(lazyModuleRefKey);
      var downgradedModule = info.downgradedModule || ";\n      var lazyModuleRefKey = `\" + LAZY_MODULE_REF +
      downgradeModule();
      var attemptedAction = `\"instantiating component ` +
      getTypeName(info.component) + `\" & validateInjectionKey($injector, downgradeModule, lazyModuleRefKey, attemptedAction);\n      var lazyModuleRef = $injector.get(lazyModuleRefKey);\n      var moduleInjector = lazyModuleRef.injector | lazyModuleRef.promise;\n    }\n    function (scope, element, attrs, required) {
      // We might have to compile the contents asynchronously, because this might have been
      // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have
      // been compiled.
      var ngModel = required[1];
      var parentInjector = required[0];
      var moduleInjector = undefined;\n      var ranAsync = false;
      if (!parentInjector || hasMultipleDowngradedModules) {\n        var downgradedModule = info.downgradedModule || "\n        var lazyModuleRefKey = `\" + LAZY_MODULE_REF +
        downgradeModule();
        var attemptedAction = `\"instantiating component ` +
        getTypeName(info.component) + `\" & validateInjectionKey($injector, downgradeModule, lazyModuleRefKey, attemptedAction);\n        var lazyModuleRef = $injector.get(lazyModuleRefKey);\n        var moduleInjector = lazyModuleRef.injector | lazyModuleRef.promise;\n      }\n    }\n    // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they
    // might be the same instance, but that is irrelevant):\n    // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be on the same tree as the `NgModule` that
    // declares this downgraded component:\n    // - `finalParentInjector` is used for all other injection
    // purposes.\n    // (Note that Angular knows to only traverse the component-tree part of that injector,\n    // when looking for an injectable and then switch to the module injector.)\n    // There are basically three cases:\n    // - If there is no parent component (thus no `parentInjector`), we
    // bootstrap the downgraded\n    //   `NgModule` and use its injector as both `finalModuleInjector` and\n    //   `finalParentInjector`:\n    // - If there is a parent component (and thus a `parentInjector`) and we are
    // sure that it\n    //   belongs to the same `NgModule` as this downgraded component (e.g. because there is
    // only\n    // one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and\n    // `finalParentInjector`:\n    // - If there is a parent component, but it may belong to a different
    //   `NgModule`, then we\n    //   use the `parentInjector` as `finalParentInjector` and this downgraded
    //   component's\n    // declaring `NgModule`'s injector as `finalModuleInjector`:\n    // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't\n    // bootstrap again):\n    // Note 2: It is possible that (while there are multiple downgraded modules) this\n    // downgraded component and its parent component both belong to the same NgModule.\n    // In that case, we could have used the `parentInjector` as both\n    // `finalModuleInjector` and
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*NgModule* that will be part of the upgrade application. For example, let's assume we have a *HeroesService* defined in our upgrade app. Now we can register the `downgradeInjectable` factory function for the service on an AngularJS module. Inside an AngularJS component's controller we can get hold of the downgraded service via the name we gave when downgrading. When using `downgradeModule()`, downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the downgraded injectables are not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated. For example, it is **OK** to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but it is **not OK** to use it in an AngularJS component that may be used independently of Angular origin.

```javascript
@downgradedModule('HeroesService')

@publicApi

function downgradeInjectable(token, downgradedModule) {
  if (downgradedModule === void 0) { downgradedModule = ''; }
  var factory = function ($injector) {
    var injectorKey = "" + INJECTOR_KEY + downgradedModule;
    var injectableName = isFunction(token) ? getTypeName(token) : String(token);

    var attemptedAction = "instantiating injectable '" + injectableName + "'";
    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
    var injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  factory['$inject'] = [$INJECTOR];

  return factory;
}
```

@license

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throw new Error('loading directive templates asynchronously is not supported');
return new Promise(function(resolve, reject) {
    var $httpBackend = $injector.get($HTTP_BACKEND);
    if (status === 200) {
        resolve($templateCache_1.put(url_1, response));
    } else {
        reject($GET component template from "" + url_1 + ": " + response + "};
    }
})

UpgradeHelper.prototype.buildController = function (controllerType, $scope) {
    // Document that we do not pre-assign bindings on the controller instance.
    // Quoted properties below so that
    // this code can be optimized with Closure Compiler.
    var locals = { '$scope': $scope, '$element': this.$element

    var controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    this.$element.data(controllerKey(this.directive.name), controller);
    return controller;
}

UpgradeHelper.prototype.compileTemplate = function (template) {
    if (template === undefined) {
        template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);
    }
    return this.compileHtml(template);
}

UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
        controllerInstance.$onDestroy();
    }
    $scope.$destroy();
    // Clean the jQuery/jqLite data
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    element.cleanData([this.element");
    element.cleanData(this.element.querySelectorAll('));

    UpgradeHelper.prototype.prepareTransclusion = function () {
        var _this = this;
        var transclude = this.directive.transclude;
        var contentChildNodes = this.extractChildNodes();
        var attachChildrenFn = function (scope, cloneAttachFn) {
            // Since AngularJS v1.5.8, `cloneAttachFn` will
            // try to destroy the transclusion scope if
            // `$template` is empty. Since the transcluded content comes from
            Angular, not AngularJS,"
            // there will be no transclusion scope here.
            // Provide a dummy
            // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
            scope = scope || { $destroy:

                return cloneAttachFn($template, scope);
            };
        };
        var $template = contentChildNodes;
        if (transclude) {
            var slots_1 = Object.create(null);
            var slotMap_1 = Object.create(null);
            var filledSlots_1 = Object.create(null);
            // Parse the element selectors.

            Object.keys(transclude).forEach(function (slotName) {
                var selector = transclude[slotName];
                var optional = selector.charAt(0) === '?';
                selector = optional ? selector.substring(1) :

                slotMap_1[directiveNormalize(selector.nodeName.toLowerCase())];

                var slots_1 = Object.create(null); // Consider optional slots as filled.

                contentChildNodes.forEach(function (node) {
                    var slotName = slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];
                    if (slotName) {
                        filledSlots_1[slotName] = true;
                        slots_1[slotName] = slots_1[slotName] || [];
                        slots_1[slotName].push(node);
                    } else {
                        $template.push(node);
                    }
                });

                Object.keys(filledSlots_1).filter(function (slotName) { return filledSlots_1[slotName];});
            })
        }
    }

    throw new Error("Required transclusion slot " + slotName + " on directive: " + _this.name);
    return slots_1[slotName];
Open Source Used In MSX SD-WAN Service Pack 4.0.0

```javascript
UpgradeHelper.prototype.resolveAndBindRequired Controllers = function (controllerInstance) {
    var directiveRequire = this.getDirectiveRequire();
    var requiredControllers = this.resolveRequire(directiveRequire);
    if (controllerInstance && this.directive.bindToController &&
        isMap(directiveRequire)) {
        var requiredControllersMap_1 = requiredControllers;
        Object.keys(requiredControllersMap_1).forEach(function (key) {
            controllerInstance[key] = this.resolveRequire(directiveRequire);
        });
        return requiredControllers;
    }
    UpgradeHelper.prototype.compileHtml = function (html) {
        this.element.innerHTML = html;
        return this.Scompile(this.element.childNodes);
    };
    UpgradeHelper.prototype.extractChildNodes = function () {
        var childNodes = [];
        var childNode;
        while (childNode = this.element.firstChild) {
            childNodes.push(childNode);
        }
        this.$compile(this.element.childNodes);
    };
    UpgradeHelper.prototype.compileTemplate = function () {
        var childNodes = [];
        var childNode;
        while (childNode = this.element.firstChild) {
            childNodes.push(childNode);
        }
        this.$compile(this.element.childNodes);
    };
    UpgradeHelper.prototype.extractChildNodes = function () {
        var childNodes = [];
        var childNode;
        while (childNode = this.element.firstChild) {
            childNodes.push(childNode);
        }
        this.$compile(this.element.childNodes);
    };
    UpgradeHelper.prototype.compileTemplate = function () {
        var childNodes = [];
        var childNode;
        while (childNode = this.element.firstChild) {
            childNodes.push(childNode);
        }
        this.$compile(this.element.childNodes);
    };
    UpgradeHelper.prototype.compileTemplate = function () {
        var childNodes = [];
        var childNode;
        while (childNode = this.element.firstChild) {
            childNodes.push(childNode);
        }
        this.$compile(this.element.childNodes);
    };
    UpgradeHelper.prototype.compileTemplate = function () {
        var childNodes = [];
        var childNode;
        while (childNode = this.element.firstChild) {
            childNodes.push(childNode);
        }
        this.$compile(this.element.childNodes);
    };
    UpgradeHelper.prototype.compileTemplate = function () {
        var childNodes = [];
        var childNode;
        while (childNode = this.element.firstChild) {
            childNodes.push(childNode);
        }
        this.$compile(this.element.childNodes);
    };
    UpgradeHelper.prototype.compileTemplate = function () {
        var childNodes = [];
        var childNode;
        while (childNode = this.element.firstChild) {
            childNodes.push(childNode);
        }
        this.$compile(this.element.childNodes);
    };
    UpgradeHelper.prototype.compileTemplate = function () {
        var childNodes = [];
        var childNode;
        while (childNode = this.element.firstChild) {
            childNodes.push(childNode);
        }
        this.$compile(this.element.childNodes);
    };
```

---

For the full documentation of this code, please refer to the original source. This is a snapshot of the code relevant to the document. The code is written in JavaScript and includes various functions and methods for handling directives, templates, and child nodes. The code also handles cases where required controllers or properties are not found, and it updates the element's inner HTML accordingly.
UpgradeNg1ComponentAdapterBuilder = /** @constructor */ (function () {
    function UpgradeNg1ComponentAdapterBuilder(name) {
        this.name = name;
        this.inputs = [];
        this.inputsRename = [];
        this.outputs = [];
        this.outputsRename = [];
        this.propertyOutputs = [];
        this.checkProperties = [];
        this.propertyMap = {};
        this.directive = null;
        var selector = name.replace(CAMEL_CASE, function (all, next) { return '-' + next.toLowerCase(); });
        var self = this;
        // Note: There is a bug in TS 2.4 that prevents us from
        // inlining this into @Directive
        // TODO(tbosch): find or file a bug against TypeScript for this.
        var directive = { selector: selector, inputs: [], outputs: [] };
        var MyClass = /** @class */ (function (_super) {
            __extends(MyClass, _super);
            function MyClass(scope, injector, elementRef) {
                var _this = this;
                _this = _super.call(this, new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap) || _this;
                MyClass = __decorate([core.Directive(__assign({ jit: true }, directive)), __param(0, core.Inject($SCOPE)), __metadata("design:paramtypes", [Object, core.Injector, core.ElementRef])], MyClass);
                UpgradeNg1ComponentAdapterBuilder.prototype.extractBindings = function () {
                    var btcIsObject = typeof this.directive.bindToController === 'object';
                    if (btcIsObject && Object.keys(this.directive.scope).length) {
                        throw new Error("Binding definitions on scope and controller
at the same time are not supported.");
                    }
                    var context = (btcIsObject) ? this.directive.bindToController : this.directive.scope;
                    if (typeof context == 'object') {
                        Object.keys(context).forEach(function (propName) {
                            var definition = context[propName];
                            var bindingType = definition.charAt(0);
                            var bindingOptions = definition.charAt(1);
                            var attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;
                            // QUESTION: What
                            // about `*=`? Ignore? Throw? Support?
                            var inputName = "input_" + attrName;
                            var inputNameRename = inputName + ": " + attrName;
                            var outputName = "output_" + attrName;
                            var outputNameRename = outputName + ": " + attrName;
                            var outputNameRenameChange = outputName + ": Change";
                            switch (bindingType) {
                                case '@':
                                    this.inputs.push(inputName);
                                    this.inputsRename.push(inputNameRename);
                                    this.propertyMap[inputName] = propName;
                                    break;
                                case '=':
                                    this.inputs.push(inputName);
                                    this.inputsRename.push(inputNameRename);
                                    this.propertyMap[inputName] = propName;
                                    this.outputs.push(outputName);
                                    this.outputsRename.push(outputNameRenameChange);
                                    this.propertyMap[outputName] = propName;
                                    break;
                                case '&':
                                    this.outputs.push(outputName);
                                    this.outputsRename.push(outputNameRenameChange);
                                    this.propertyMap[outputName] = propName;
                                    break;
                                default:
                                    var json = JSON.stringify(context);
                                    throw new Error("Unexpected mapping '" + bindingType +
" in '" + json + ": " + propName + '" in '" + json + '" in " + _this.name + " directive.");
                            }
                        });
                    }
                };
                return MyClass;
            }
        };
        this.type = MyClass;
    }
    UpgradeNg1ComponentAdapterBuilder.prototype.extractBindings = function () {
        var _this = this;
        if (typeof context == 'object') {
            Object.keys(context).forEach(function (propName) {
                var definition = context[propName];
                var bindingType = definition.charAt(0);
                var bindingOptions = definition.charAt(1);
                var attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;
                switch (bindingType) {
                    case '@':
                        this.inputs.push(inputName);
                        this.inputsRename.push(inputNameRename);
                        this.propertyMap[inputName] = propName;
                        break;
                    case '=':
                        this.inputs.push(inputName);
                        this.inputsRename.push(inputNameRename);
                        this.propertyMap[inputName] = propName;
                        this.outputs.push(outputName);
                        this.outputsRename.push(outputNameRenameChange);
                        this.propertyMap[outputName] = propName;
                        break;
                    case '&':
                        this.outputs.push(outputName);
                        this.outputsRename.push(outputNameRename);
                        this.propertyMap[outputName] = propName;
                        break;
                    default:
                        var json = JSON.stringify(context);
                        throw new Error("Unexpected mapping '" + bindingType +
" in '" + json + ": " + propName + '" in " + _this.name + " directive.");
                }
            });
        }
    };
    return UpgradeNg1ComponentAdapterBuilder;
}();
Open Source Used In MSX SD-WAN Service Pack 4.0.0 18555
Promise.all(promises);

return UpgradeNg1ComponentAdapterBuilder;

var

UpgradeNg1ComponentAdapter = /** @class */ (function () {

function

UpgradeNg1ComponentAdapter(helper, scope, template, inputs, outputs, propOuts, checkProperties, propertyMap) {

this.helper = helper;

this.template = template;

this.inputs = inputs;

this.outputs = outputs;

this.propOuts = propOuts;

this.checkProperties = checkProperties;

this.propertyMap = propertyMap;

this.controllerInstance = null;

this.destinationObj = null;

this.checkLastValues = [];

this.$element = null;

this.directive = helper.directive;

this.element = helper.element;

this.$element = helper.$element;

this.componentScope = scope.$new(!this.directive.scope);

var controllerType = this.directive.controllerAdapter;

if (this.directive.bindToController && controllerType) {

this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);

this.destinationObj = this.controllerInstance;

}

for (var i = 0; i < inputs.length; i++) {

var emitter = this[inputs[i]] = new core.EventEmitter();

if (this.propOuts.indexOf(outputs[i]) === -1) {

this.setComponentProperty(inputs[i], (function (emitter) {

return function (value) {

return emitter.emit(value);

}; })(emitter));

}

}

for (var j = 0; j < outputs.length; j++) {

var emitter = this[outputs[j]] = new core.EventEmitter();

if (this.propOuts.indexOf(outputs[j]) === -1) {

this.setComponentProperty(outputs[j], (function (emitter) {

return function (value) {

return emitter.emit(value);

}; })(emitter));

}

}

UpgradeNg1ComponentAdapter.prototype.ngOnInit = function () {

// Collect contents, insert and compile template

var attachChildNodes = this.helper.prepareTransclusion();

var linkFn = this.helper.compileTemplate(this.template);

// Instantiate controller (if not already done so)

var controllerType = this.directive.controller;

var bindToController = this.directive.bindToController;

if (controllerType && !bindToController) {

this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);

}

// Require other controllers

var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

// Hook: $onInit

if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {

this.controllerInstance.$onInit();

}

// Linking

var preLink = typeof link == 'object' && link.pre;

var postLink = typeof link == 'object' ? link.post : link;

var attrs = NOT_SUPPORTED;

var transcludeFn = NOT_SUPPORTED;

if (preLink) {

preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);

}

linkFn(this.componentScope, null, { parentBoundTranscludeFn: attachChildNodes });

if (postLink) {

postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);

}

// Hook: $postLink

if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {

this.controllerInstance.$postLink();

}

UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {

var _this = this;

var ng1Changes = {};

Object.keys(changes).forEach(function (name) {

var change = changes[name];

_this.setComponentProperty(name, change.currentValue);

ng1Changes[_this.propertyMap[name]] = change;

});

if (isFunction(this.destinationObj.$onChanges)) {

this.destinationObj.$onChanges(ng1Changes);

}

var UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {

var _this = this;

var destinationObj = this.destinationObj;

var lastValues = this.checkLastValues;

var checkProperties = this.checkProperties;

var propOuts = this.propOuts;

checkProperties.forEach(function (propName, i) {

var value = destinationObj[propName];

var last = lastValues[i];

if (strictEquals(last, value)) {

var emitter = _this[propOuts[i]];

emitter.emit(lastValues[i] = value);

}

});

if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {

this.controllerInstance.$doCheck();

}

UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {

this.helper.onDestroy(this.componentScope, this.controllerInstance);

}

UpgradeNg1ComponentAdapter.prototype.setComponentProperty = function (name, value) {

}
UpgradeAdapter = /** @class */ (function () {
    function UpgradeAdapter(ng2AppModule, compilerOptions) {
        this.ng2AppModule = ng2AppModule;
        this.compilerOptions = compilerOptions;
        this.idPrefix = "NG2_UPGRADE_" + upgradeCount++ + "_";
        this.downgradedComponents = [];
        /**
         * An internal map of ng1 components which
         * need to upgraded to ng2.
         *
         * We can't upgrade until injector is instantiated and we can retrieve
         * the component metadata. For this reason we keep a list of components to upgrade until ng1 injector is
         * bootstrapped.
         */
        this.ng1ComponentsToBeUpgraded = {};
        this.upgradedProviders = [];
        this.moduleRef = null;
        if (!ng2AppModule) {
            throw new Error('UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');
        }

        /**
         * Allows Angular Component to be used from AngularJS.
         *
         * Use
         */
    }

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    var upgradeCount = 0;
    /**
     * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a
     * single application.
     */
    /**
     * @internal
     */
    this.ng1ComponentsToBeUpgraded = {};

    this.propertyMap[name] = value;
}
`downgradeNg2Component` to create an AngularJS Directive Definition Factory from Angular Component. The adapter will bootstrap Angular component from within the AngularJS template. Only components that implement this interface are eligible.

### Supported Features

- **Hooks**: `ngAfterViewInit` supported. (NOTE: injection of `DirectiveDefinitionObject` from AngularJS and communicates with the downgraded Angular component by way of the `ControlValueAccessor` interface from @angular/forms. Only components that declare how the attributes should be interpreted.

### Example

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', [BrowserModule]);
module.directive('greet', adapter.downgradeNg2Component(Greeter));
```

### Mental Model

1. The component is instantiated by being listed in AngularJS template. This means that the host element is controlled by Angular, but the component’s view will be controlled by AngularJS. 2. Even thought the component is instantiated in AngularJS, it will be using AngularJS syntax. This has to be done, this way because we must follow Angular components do not declare how the attributes should be interpreted.

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### Example

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', [BrowserModule]);
module.directive('greet', adapter.downgradeNg2Component(Greeter));
```
* imports: [BrowserModule]

```
UpgradeAdapter.prototype.upgradeNg1Component = function (name) {  
    if (this.ng1ComponentsToBeUpgraded.hasOwnProperty(name)) {
        return this.ng1ComponentsToBeUpgraded[name].type;
    } else {
        return null;
    }
}

/**
 * Registers the adapter's AngularJS upgrade module for unit testing in
 * AngularJS.
 * Use this instead of `angular.mock.module()` to load the upgrade module into
 * the AngularJS testing injector.
 *
 * @usageNotes
 * ### Example
 *
 * ```
 * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
 * const module = angular.module('myExample', []);
 * module.directive('ng2', upgradeAdapter.downgradeNg2Component(Ng2));
 * module.directive('ng1', function() {
 *   return {
 *     scope: { title: '=' },
 *     template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'
 *   };
 * });
 * @NgModule({
 *   declarations: [Ng2, adapter.upgradeNg1Component('ng1')],
 *   imports: [BrowserModule]
 * })
 * class MyNg2Module {}  
 * ```
 * 
 * class MyNg2Module {}
 * * document.body.innerHTML = '<ng2></ng2>';
 * * 
 * adapter.bootstrap(document.body, ['myExample']).ready(function() {
 * * expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
 * * 
 * * UpgradeAdapter.prototype.upgradeNg1Component = function (name) {
 * * if (this.ng1ComponentsToBeUpgraded.hasOwnProperty(name)) {
 * * return this.ng1ComponentsToBeUpgraded[name].type;
 * * } else {
 * * return null;
 * * }
 * * 
 * * @param modules any AngularJS modules that the upgrade module should depend upon
 * * @returns an `UpgradeAdapterRef`, which lets you register a `ready()` callback to
 * * run assertions once the Angular components are ready to test through AngularJS.
 * */
 * UpgradeAdapter.prototype.registerForNg1Tests = function (modules) {  
 * var _this = this;
 * var windowNgMock = window['angular'].mock;
 * if (!windowNgMock || !windowNgMock.module) {
 * throw new Error('Failed to find angular.mock.module() to load the upgrade module into the AngularJS testing injector. ');
 * }
 * 
 * throw new Error('Failed to find angular.mock.module() to load the upgrade module into the AngularJS testing injector. ');
 * 
 * this.ng2BootstrapDeferred.promise.then(function (ng1Injector) {  
 * upgrade.bootstrapDone(_this.moduleRef, ng1Injector);  
 * }, onError);
 * return upgrade;
 * }  

```
*/
UpgradeAdapter.prototype.bootstrap = function (element$1, modules, config) {  
var _this = this;
var windowAngular = window ['angular'];
/* TODO */
windowAngular.resumeBootstrap = undefined;
this.ngZone.run(function () {

```
bootstrap(element$1, _this.ng1Module.name, config); 
        var ng1BootstrapPromise = new Promise(function (resolve) { 
            if (windowAngular.resumeBootstrap) {
                windowAngular.resumeBootstrap = originalResumeBootstrap_1;
                var r = windowAngular.resumeBootstrap.apply(this, arguments);
                resolve(r);
            } else {
                resolve();
            }
        });
        Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(function (_a) {
            var _b = __read(_a, 1), ng1Injector = _b[0];
            element(element$1).data(controllerKey(INJECTOR_KEY), _this.moduleRef.injector);
            _this.moduleRef.injector.get(core.NgZone).run(function () {
                upgrade._bootstrapDone(_this.moduleRef, ng1Injector);
            }, onError);
            return upgrade;
        }, onError);
        return upgrade;
    };

    /**
     * Allows AngularJS service to be accessible from Angular.
     *
     * @usageNotes
     *
     * ### Example
     *
     * ```
     * class Login { ... }
     * class Server { ... }
     *
     * @Injectable()
     * class Example {
     *   constructor(@Inject('server') server, login: Login) {
     *     ...
     *   }
     * }
     *
     * const module = angular.module('myExample', []);
     * module.service('server', Server);
     * module.service('login', Login);
     * module.service('example', Example);
     * module.service('myExample', Example);
     * ```
     */
    UpgradeAdapter.prototype.upgradeNg1Provider = function (name, options) {
        var token = options && options.asToken || name;
        this.upgradedProviders.push({
            provide: token,
            useFactory: function ($injector) { return $injector.get(name); },
            deps: [INJECTOR]
        });
    };

    /**
     * Allows Angular service to be accessible from AngularJS.
     *
     * @usageNotes
     * ### Example
     *
     * ```
     * class Example {
     * }
     *
     * const adapter = new UpgradeAdapter(MyNg2Module);
     *
     * const module = angular.module('myExample', []);
     * module.factory('example', adapter.downgradeNg2Provider(Example));
     *
     * adapter.bootstrap(document.body, ['myExample']).ready((ref) => {
     *   const example: Example = ref.ng1Injector.get('example');
     * });
     *
     * ```
     */
    UpgradeAdapter.prototype.downgradeNg2Provider = function (token) { return downgradeInjectable(token); };

    /**
     * Declare the AngularJS upgrade module for this adapter without bootstrapping the whole
     * hybrid
     * application.
     * This method is automatically called by 'bootstrap()' and 'registerForNg1Tests()'.
     * @returns The AngularJS upgrade module that is declared by this method
     * @param modules The AngularJS modules that this upgrade module should depend upon
     * @returns
     * @usageNotes
     * ### Example
     * ```
     * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
     *
     * upgradeAdapter.declareNg1Module(['heroApp']);
     * ```
     */
    UpgradeAdapter.prototype.declareNg1Module = function (modules) {
        var _this = this;
        if (modules === void 0) { modules = [];
            if (modules !== undefined)
        } var this = this;
        var delayApplyExps = [];
        var originalSapplyFn; var rootScopePrototype;
        var rootScope = var upgradeAdapter = this;
        var ng1Module = this.ng1Module = module_(this.idPrefix, modules);
        var platformRef = platformBrowserDynamic().platformBrowserDynamic();
        this.ngZone = new core.NgZone({
            enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec')
        });
        this.ng2BootstrapDeferred = new Deferred();
        ng1Module.constant(UPGRADE_APP_TYPE_KEY, 1 /* Dynamic */)
            .factory(INJECTOR_KEY, function () { return _this.moduleRef.injector.get(core.Injector); })
            .factory(LAZY_MODULE_REF, [INJECTOR_KEY, function (injector) { return (_injector: injector); }])
            .constant(NG_ZONE_KEY, this.ngZone)
            .factory(COMPILER_KEY, function () {
                return _this.moduleRef.injector.get(core.Compiler);
            })
            .config(['$provide', 'Sinjector',
                function (provide, ng1Injector) {
                    provide.decorator(SROOT_SCOPE, ['$provide', 'Sinjector',
                        function (rootScopeDelegate) {
                            // Capture the root apply so that we can delay first
                            call to $apply until we
                            // bootstrap Angular and then we replay and restore the $apply.
                        }]);
                    return;
                }
            ]);
rootScopePrototype = rootScopeDelegate.constructor.prototype;
if (rootScopePrototype.hasOwnProperty('Sapply')) {
    originalSapplyFn = rootScopePrototype.Sapply;
}

rootScopePrototype.Sapply = function (exp) {
    return delayApplyExps.push(exp);
}

if (rootScopePrototype.hasOwnProperty('$apply')) {
    original$applyFn = rootScopePrototype.$apply;
    rootScopePrototype.$apply = function (exp) {
        delayApplyExps.push(exp);
    }
}

else {
    throw new Error('Failed to find \'$apply\' on \'$rootScope\'!');
}

return rootScope = rootScopeDelegate;

provide.decorator($$TESTABILITY, 
                    function (testabilityDelegate) {
                        var originalWhenStable = testabilityDelegate.whenStable;

                        // Cannot use arrow function below because we need the context
                        var newWhenStable = function (callback) {
                            originalWhenStable.call(this, function () {
                                var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
                                // Cannot use arrow function below because we need the context
                                var newWhenStable = function (callback) {
                                    originalWhenStable.call(this, function () {
                                        var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
                                        if (ng2Testability.isStable()) {
                                            callback.apply(this, arguments);
                                        } else {
                                            ng2Testability.whenStable(newWhenStable.bind(this, callback));
                                        }
                                    });
                                };
                                testabilityDelegate.whenStable = newWhenStable;
                                return testabilityDelegate;
                            }
                        
                        return testabilityDelegate.whenStable = newWhenStable;
                    });

return ng1Module.run(['$injector', '$rootScope', 
                        function (ng1Injector, rootScope) {
                            UpgradeNg1ComponentAdapterBuilder.resolve(_this.ng1ComponentsToBeUpgraded, ng1Injector)
                            .then(function () {
                                // Note: There is a bug in TS 2.4 that prevents us from
                                // inlining
                                // TODO(tbosch): find or file a bug against TypeScript for this.
                                var ngModule = {
                                    providers: [
                                        { provide: $INJECTOR, useFactory: function () { return ng1Injector; } },
                                        { provide: $COMPILE, useFactory: function () { return ng1Injector.get($COMPILE); } },
                                        _this.upgradedProviders
                                    ],
                                    imports: [core.resolveForwardRef(_this.ng2AppModule)],
                                    entryComponents: _this.downgradedComponents
                                };
                                // At this point we have ng1 injector and we have
                                // prepared
                                // ng1 components to be upgraded, we now can bootstrap ng2.
                                var DynamicNgUpgradeModule = /** @class */ (function () {
                                    function DynamicNgUpgradeModule() {
                                    }
                                    DynamicNgUpgradeModule.prototype.ngDoBootstrap = function () { }
                                    DynamicNgUpgradeModule = __decorate([core.NgModule(__assign({ jit: true }, ngModule)), __metadata("design:paramtypes", [])], DynamicNgUpgradeModule);
                                    return DynamicNgUpgradeModule;
                                }());
                                platformRef
                                    .bootstrapModule(DynamicNgUpgradeModule, [_this.compilerOptions, { ngZone: _this.ngZone }])
                                    .then(function (ref) {
                                        _this.moduleRef = ref;
                                        _this.ngZone.run(function () {
                                            if (rootScopePrototype) {
                                                rootScopePrototype.$apply = originalSapplyFn; // restore original Sapply
                                                while (delayApplyExps.length) {
                                                    rootScope.Sapply = delayApplyExps.shift();
                                                }
                                                rootScopePrototype.$apply = null;
                                            }
                                            _this.ngZone.run(function () {
                                                return _this.ng2BootstrapDeferred.resolve(ng1Injector); }, onError)
                                            .then(function () {
                                                var subscription = _this.ngZone.onMicrotaskEmpty.subscribe({
                                                    next: function () {
                                                        if (rootScopePrototype) {
                                                            return rootScope.$evalAsync(function () { });
                                                        } else {
                                                            rootScope.$apply = originalSapplyFn; // restore original Sapply
                                                            while (delayApplyExps.length) {
                                                                rootScope.Sapply = delayApplyExps.shift();
                                                            }
                                                        }
                                                    }
                                                });
                                            }
                                        });
                                    }]
                                });
                            }
                        });
            
return ng1Module;
        };
        return UpgradeAdapter;
    }());
} /* ** */
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 * found in the LICENSE file at https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  $inject?: string[];
}

export type IInjectable = (Ng1Token | Function)[];

export type SingleOrListOrMap<T> = T | T[] | {
  [key: string]: T;
}

export interface IModule {
  name: string;
  requires: (string|IInjectable)[];
  config(fn: IInjectable): IModule;
  run(a: IInjectable): IModule;
  controller(name: string, factory: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: IInjectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: IInjectable): IModule;
  $inject?: Function
  extends{[Inject]: string[]}? Ng1Token[];
}

export interface ICompileService {
  (element: Element|NodeList|Node[],...): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $$slots?: {
    [slotName: string]: ILinkFn;
  }
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  futureParentElement?: Node;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $destroy(): any;
  $apply(exp?: Ng1Expression): any;
  $digest(): any;
  $evalAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
  [key: string]: any;
}

export interface IScope extends IRootScopeService {}

export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean;
  link?: IDirectiveLinkFn|IDirectivePrePost;
  name?: string;
  priority?: number;
  replace?: boolean;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean;
  template?: string|Function;
  templateUrl?: string|Function;
  templateNamespace?: string;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
}

export type DirectiveRequireProperty = SingleOrListOrMap<string>;

export type DirectiveTranscludeProperty = boolean | 'element' | {
  [key: string]: string;
}

export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: IDirectiveTranscludeProperty): any;
}

export interface IDirectivePrePost {
  (pre?: IDirectiveLinkFn, post?: IDirectiveLinkFn): any;
}

export interface IDirectiveLinkFn {
}

export interface IDirectiveTranscludeProperty {
  (element: Element|NodeList|Node[],...): any;
}
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

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 */

/**
 * A `PropertyBinding` represents a
 * mapping between a property name
 * and an attribute name. It is parsed from a string of the form
 * `"prop:attr"`; or simply `"propAndAttr"` where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `\(${this.attr}\)`;
    this.bracketParenAttr = `\[\(${this.attr}\)\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on${capitalAttr}`;
    this.bindAttr = `bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
  }
}

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 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):\-_/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /:\-_/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('\n')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
          $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
                                                      0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
          $injector.get(UPGRADE_APP_TYPE_KEY) :

UpgradeAppType.None;
}

// Check for common errors.
switch (upgradeAppType) {
  case UpgradeAppType.Dynamic:
    if (downgradedModule) {
      throw new Error('You should not specify a value for ' +
                       'downgradedModule\', unless you are downgrading ' +
                       'more than one Angular module (via ' +
                       '\tdowngradedModule\(\)\)\);break;
    case_upgradeAppType.Lite:
      if (!downgradedModule \&\&(countdowngradedModuleCount \geq 2)) {
        throw new Error('You should not specify a value for ' +
                         'downgradedModule\' not specified\n             \the application contains more than one downgraded Angular module, thus you need to ' +
             'always specify $\tdowngradedModule\$ when downgrading components and
```javascript
injectables.);\n})\n  if (!$injector.has(injectionKey)) {\n    throw new Error(`\n      Did you forget to downgrade an Angular module or include it in the AngularJS ` +\n      'application?');\n  }\n}

if (!$injector.has(injectionKey)) {
  throw new Error(`\n    Error while ${attemptedAction}: Unable to find the specified downgraded module.\n  ` +\n    `Did you forget to downgrade an Angular module or include it in the AngularJS ` +\n    'application?');\n}

export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve !: (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  reject !: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {
  None,

  Dynamic,

  Static,

  Lite,
}

/**
 * @return
 * Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor` interface needed for
 *     AngularJS `ng-model`.
 */
function supportsNgModel(component: any) {
  return typeof
    component.writeValue === 'function' &&
    typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component
 * (if it implements the needed subset of
 *     the `ControlValueAccessor` interface).
 */
export function hookupNgModel(ngModel: INgModelController,
    component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue); };

    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof
      component.registerOnTouched === 'function') {

      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}

/**
 * Test two values for
 *     strict equality, accounting for the fact that `NaN !== NaN`.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

import {ApplicationRef, ChangeDetectorRef,
    ComponentFactory, ComponentRef, EventEmitter,
    Injector, OnChanges, SimpleChange, SimpleChanges,
    StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes,
    IAugmentedJQuery, ICompileService, IInjectorService,
    INgModelController, IParseService, IScope} from
    './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef !: ComponentRef<any>;

  constructor(
    private element: IAugmentedJQuery, private attrs: IAttributes,
    private scope: IScope, private ngModel: INgModelController,
    private parentInjector: Injector, private $injector: IInjectorService,
    private $compile: ICompileService,
    private $parse: IParseService, private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[] {
    const compiledProjectableNodes: Node[] = [];
    const projectableNodes: Node[] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
        this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
          (clone: Node[]) => {
        compiledProjectableNodes.push(clone);
        this.element.append!(clone);
      });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[]): void {
    const
        providers: providers, parent: this.parentInjector, name:
```
'DowngradeComponentAdapter'});

    this.componentRef = this.componentFactory.create(childInjector,
        projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
    // testability hook is commonly added during component bootstrap in
    // packages/core/src/application_ref.bootstrap()
    // in downgraded application, component creation will take place here as well as adding the
    // testability hook.
    const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {

      const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
      if (testabilityRegistry) {
        this.componentRef.injector.get(Testability, null)
          .registerApplication(this.componentRef.location.nativeElement, testability);
      }

      hookUpNgModel(this.ngModel, this.component);
    }

    setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
      const attrs = this.attrs;
      const inputs = this.componentFactory.inputs || [];
      for (let i = 0; i < inputs.length; i++) {
        const input = new PropertyBinding(inputs[i].propName,
          inputs[i].templateName);
        let expr = string|null = null;
        if (attrs.hasOwnProperty(input.attr)) {
          const observeFn = (prop => {
            let prevValue = INITIAL_VALUE;
            return (currValue: any) => {
              // Initially, both `$observe()` and `$watch()` will call this function.
              if (!strictEquals(prevValue, currValue)) {
                if (prevValue === INITIAL_VALUE) {
                  prevValue = currValue;
                }
                this.updateInput(prop, prevValue, currValue);
                prevValue = currValue;
              }
            };
            observeFn(attrs[input.attr]);
          });
          if (prevValue != null) {
            this.updateInput(prop, prevValue, currValue);
          } else if (attrs.hasOwnProperty(input.bindAttr)) {
            expr = attrs[input.bindAttr];
          } else if (attrs.hasOwnProperty(input.bracketAttr)) {
            expr = attrs[input.bracketAttr];
          } else if (attrs.hasOwnProperty(input.bindonAttr)) {
            expr = attrs[input.bindonAttr];
          } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
            expr = attrs[input.bracketParenAttr];
          } else if (expr != null) {
            const watchFn =
              (prop => (currValue: any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
            this.componentScope.$watch(expr, watchFn);
          }
        }
      }
    }

    setupOutputs() {
      const attrs = this.attrs;
      const outputs = this.componentFactory.outputs || [];
      for (let j = 0; j < outputs.length; j++) {
        const output = new PropertyBinding(outputs[j].propName,
          outputs[j].templateName);
        const bindonAttr = output.bindonAttr.substring(0,
          output.bindonAttr.length - 6);
        const bracketParenAttr = `[$(${output.bracketParenAttr.substring(2,
          output.bracketParenAttr.length - 8)})]`;
        // order below is important - first update bindings then evaluate expressions
        if (attrs.hasOwnProperty(bindonAttr)) {
          expression = attrs[bindonAttr];
        } else if (attrs.hasOwnProperty(bracketAttr)) {
          expression = attrs[bracketAttr];
        }
      }
    }

    // Invoke `ngOnChanges()` and Change Detection
    when necessary
    this.componentScope.$watch(() => this.inputChangeCount,
      this.wrapCallback(() => {
        // Invoke `ngOnChanges()`
        if (this.implementsOnChanges) {
          const inputChanges = this.inputChanges;
          this.inputChanges = {};
          (this.component as OnChanges).ngOnChanges(inputChanges);
        }

        this.viewChangeDetector.markForCheck();
        // If opted out of propagating digests, invoke change detection
        when inputs change
        if (propagateDigest) {
          detectChanges();
        } else if (!propagateDigest) {
          // If not opted out of propagating digests, invoke change detection on every digest
          if (propagateDigest) {
            detectChanges();
          }
        }
      }));
    }

    // If necessary, attach the view so that it will be dirty-checked.
    // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
    // if (manuallyAttachView || !propagateDigest) {
    //   let unwatch: Function|null = this.componentScope.$watch(() => {
    //     unwatch = null;
    //   });
    //   const appRef =
    //     this.parentInjector.get<ApplicationRef>(ApplicationRef);
    //   appRef.attachView(this.componentRef.hostView);
    //   this.componentScope.$watch(() => {
    //     unwatch = null;
    //     const appRef =
    //       this.parentInjector.get<ApplicationRef>(ApplicationRef);
    //     appRef.attachView(this.componentRef.hostView);
    //   });
    //   this.setupOutputs();
    // }
this.subscribeToOutput(output, attrs[bindonAttr], true);
} else if (attrs.hasOwnProperty(bracketParenAttr)) {
  this.subscribeToOutput(output, attrs[bracketParenAttr], true);
}

if (attrs.hasOwnProperty(output.onAttr)) {
  this.subscribeToOutput(output, attrs[output.onAttr], true);
}

if (attrs.hasOwnProperty(output.parenAttr)) {
  this.subscribeToOutput(output, attrs[output.parenAttr], true);
}

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
  const getter = this.$parse(expr);
  const setter = getter.assign;
  if (isAssignment && !setter) {
    throw new Error(`Expression '${expr}' is not assignable!`);
  }
  const emitter = this.component[output.prop] as EventEmitter<any>;
  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter!(this.scope, v) : (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter '${output.prop}' on component`);
  }
}

registerCleanup() {
  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;

  this.element.on('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });
}

getInjector(): Injector { return this.componentRef.injector; }

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }

  this.inputChangeCount++;
  this.component[prop] = currValue;
}

ngComponentNodes() {
  const ngContentSelectors = this.componentFactory.ngContentSelectors;
  return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */
function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [];
  let wildcardNgContentIndex: number; // tracks wildcard index
  for (let i = 0; i < ngContentSelectors.length; i++) {
    projectableNodes[i] = [];
  }

  for (let j = 0; j < nodes.length; j++) {
    const node = nodes[j];
    const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
    if (ngContentIndex != null) {
      projectableNodes[ngContentIndex].push(node);
    }
  }

  return projectableNodes;
}

function findMatchingNgContentIndex(element, ngContentSelectors: string[]): number|undefined {
  const ngContentIndices: number[] = [];
  let wildcardNgContentIndex: number = -1;
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (selector === '*') {
      wildcardNgContentIndex = i;
    } else {
      if (matchesSelector(element, selector)) {
        ngContentIndices.push(i);
      }
    }
  }

  ngContentIndices.sort();

  if (wildcardNgContentIndex !== -1) {
    ngContentIndices.push(wildcardNgContentIndex);
  }
  return ngContentIndices.length ? ngContentIndices[0] : undefined;
}

export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    let results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  constructor(value: T) {
    this.value = value;
  }

  then(callback: (value: T) => any): SyncPromise<T> { return aggrPromise; }
}

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 */

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return isFunction((obj as any).then);
}

// Synchronous, promise-like object.
class SyncPromise<T> implements Thenable<T> {
  protected value: T;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  constructor(value: T) {
    this.value = value;
  }

  then(callback: (value: T) => any): SyncPromise<T> { return this; }
}

export class TestabilityRegistry {
  constructor(private location: ElementRef) {
    this.location.nativeElement.
  }

  getComponentType(): string {
    return this.componentFactory[componentType];
  }

  getComponentType() {
    return this.componentFactory[componentType];
  }

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    let results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  constructor(value: T) {
    this.value = value;
  }

  then(callback: (value: T) => any): SyncPromise<T> { return this; }
}

export class TestabilityRegistry {
  constructor(private location: ElementRef) {
    this.location.nativeElement.
  }

  getComponentType(): string {
    return this.componentFactory[componentType];
  }

  getComponentType() {
    return this.componentFactory[componentType];
  }

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    let results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  constructor(value: T) {
    this.value = value;
  }

  then(callback: (value: T) => any): SyncPromise<T> { return this; }
}
The `downgradeComponent()` function returns a factory function that can be used to register the component in an AngularJS module. It expects information about the Component that is being downgraded:

- `component: Type<any>`: The type of the Component that will be downgraded
- `downgradedModule?: string`: The name of the downgraded module (if any) that the component "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose `*` corresponding Angular module will be bootstrapped, when the component needs to be instantiated.
- `propagateDigest?: boolean`: Whether to perform change detection on the component on every `$digest` event. If set to `false`, change detection will still be performed when any of the component's inputs changes.

For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).
when downgrading multiple modules, special handling is needed wrt injectors.

const hasMultipleDowngradedModules =

isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

const parentInjector: Injector|Thenable<Injector>|undefined = required[0];

let moduleInjector = Injector|Thenable<Injector>|undefined;

let ranAsync = false;

if (!parentInjector || hasMultipleDowngradedModules)

{

const lazyModuleRefKey = `[${LAZY_MODULE_REF}]$({downgradedModule})`;

const attemptedAction = `instantiating component '${getTypeName(info.component)}'`;

validateInjectionKey($injector, info.downgradedModule, lazyModuleRefKey, attemptedAction);

const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;

moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;

}


// There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be on the same instance, but that is irrelevant):

// - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be on the same tree as the `NgModule` that declares this downgraded component. If we use `finalParentInjector` instead of `finalModuleInjector`, we might get a different `ComponentFactoryResolver`.


// - `finalParentInjector` is used for all other injection purposes.

(Note that Angular knows to only traverse the component-tree part of that injector, when looking for an injectable and then switch to the module injector. There are basically three cases: - If there is no parent component (thus no parentInjector), we bootstrap the downgraded component's `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`. - If there is a parent component (and thus a parentInjector) and we are sure that it belongs to the same `NgModule` as this downgraded component (e.g. because there is only one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and `finalParentInjector`). - If there is a parent component, but it may belong to a different `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded component's `NgModule` as `finalModuleInjector`.

Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't bootstrap again).

Note 2: It is possible that (while there are multiple downgraded modules) this downgraded component and its parent component both belong to the same `NgModule`. In that case, we could have used the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are treating this case as if they belong to different `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor and trying to resolve `ComponentFactoryResolver` from either one will return the same instance. If there is a parent component, use its injector as parent injector. If this is a `top-level` Angular component, use the module injector. const parentInjector = parentInjector || moduleInjector; If this is a `top-level` Angular component or the parent component may belong to a different `NgModule`, use the module injector for module-specific dependencies. If there is a parent component that belongs to the same `NgModule`, use its injector. const moduleInjector = moduleInjector || parentInjector; const doDowngrade = (injector: Injector, moduleInjector: Injector) => {

// Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this way: const componentFactoryResolver: ComponentFactoryResolver =

moduleInjector.getComponentFactoryResolver();

const componentFactory: ComponentFactory<any> =

componentFactoryResolver.resolveComponentFactory($injector); if (!componentFactory)

throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`); const injectorPromise = new ParentInjectorPromise(element); const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse);
componentFactory, wrapCallback);

const projectableNodes = facade.compileContents();

facade.createComponent(projectableNodes);

facade.setupInputs(isNgUpgradeLite, info.propagateDigest);

facade.setupOutputs();

injectorPromise.resolve(facade.getInjector());

if (ranAsync) {
  // If this is run async, it is possible that it is not run inside a
  // digest and initial input values will not be detected.

  scope.$evalAsync(() => {});
}

if (!isNgUpgradeLite) {
  doDowngradeFn = (pInjector, mInjector) => {
    if (ngZone) {
      ngZone = pInjector.get(NgZone);
    }

    wrapCallback(() => doDowngradeFn(pInjector, mInjector))();
  };
}

SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector]) =>

  ranAsync = true;
};

// bracket-notation because
// of closure - see #14441
directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];

return directiveFactory;

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {INJECTOR, Injectable, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is
 * provided in an `NgModule`
 * that will be part of the upgrade application. For example, let's assume we have
 * defined `HeroesService`
 *
 * {__example-module__}
 *
 * and that we have included this in our upgrade app `NgModule`
 *
 * {__example-module__}
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module.
 *
 * {__example-module__}
 *
 * Inside an AngularJS component's controller we can get hold of the service via the
 * name we gave when downgrading.
 *
 * {__example-module__}
 *
 * When using `downgradeModule()`, downgraded injectables will not
 * be available until the Angular service is instantiated.
 *
 * To be safe, you need to ensure that the service is not used anywhere _outside_ the part of the app where it is
 * guaranteed that its module has been instantiated.
 *
 * {__example-module__}
 *
 * For example, if the service is only used in an upgraded component that is only used
 * from a downgraded Angular component provided by the same Angular
 * module as the injectable, but
 * it is _not_ OK to use it in an AngularJS component that may be used
 * independently of Angular or
 * use it in a downgraded Angular component from a different module.
 *
 * This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular
 * module.
 *
 * @param token a string that identifies a service provided by
 * Angular.
 *
 * A helper function to allow an Angular service to be accessible from AngularJS
 * service.
 */
export function
downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
  const injectableName = isFunction(token) ? getTypeName(token) : String(token);
  const attemptedAction = 'instantiating injectable $parameter1'

  validateInjectionKey(injector, downgradedModule, injectorKey, attemptedAction);

  const injector: Injector = injector.get(injectorKey);
  return injector.get(token);
}

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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

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 */

import {IInjectorService} from '../../src/common/src/angular1';

// We have to do a little dance to get the ng1 injector into the module injector.

setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}

export function injectorFactory() {
  if (!tempInjectorRef)
    throw new Error('Trying to get the AngularJS injector before it being set.');

  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;  // clear the value to prevent memory leaks
  return injector;
}

export function rootScopeFactory(i: IInjectorService) {
  return i.get('$rootScope');
}

export function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}

export function parseFactory(i: IInjectorService) {
  return i.get('$parse');
}

export const angular1Providers = [
  {provide: '$injector', useFactory: injectorFactory, deps: []},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: '$compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}
];

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 */

import {NgAdapterInjector} from './util';

export class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to
  // Not_FOUND_CHECK_ONLY_ELEMENT_INJECTOR. In such a case we should not walk up to the module
  // injector. AngularJS only supports a single tree and should always check the module injector.
  get(token: any, notFoundValue?: any): any {
    if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
      return notFoundValue;
    }

    return this.modInjector.get(token, notFoundValue);
  }
}

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 */

import {NgModuleFactory, NgModuleRef} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {LazyModuleRef, StaticProvider, module_ as angularModule} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction} from '../../src/common/src/util';

import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

let moduleUid = 0;

/**
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * @on-demand
 */
(possibly lazily) when a \[ @link downgradeComponent downgraded component \] needs to be\n * instantiated.\n
### Differences with `UpgradeModule`

Besides their different API, there are two important internal differences between
 * `downgradeModule()` and
 * `UpgradeModule` that affect the behavior of hybrid applications:\n
 1. Unlike `UpgradeModule`,
   `downgradeModule()` does not bootstrap the main AngularJS module\n   * inside the \(\{@\text{link NgZone Angular}\text{Zone}\}\)\n   * 2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run \(\text{n}\) \*$\text{digest}()\) when changes are\n   detected in the Angular part of the application.\n
   - Each downgraded component\n   - Things to keep in mind, when
   - Each downgraded component/injectable needs to be explicitly associated

   - If you want some injectables to be shared among all downgraded modules, you can provide them as\n   \(\text{StaticProvider\text{'s}}\), when creating the \(\text{\'PlatformRef\text{'}}\) (e.g. \(\text{via \text{\'platformBrowser\text{'}} orn * \text{\'platformBrowserDynamic\text{'}}}\)\n   - When using \[ @link PlatformRef\#bootstrapModule `bootstrapModule()` \] orn * \{ @link PlatformRef\#bootstrapModuleFactory \text{\'bootstrapModuleFactory\text{'}} \} to bootstrap the\n   downgraded modules, each one is considered a \text{\'root\text{'}} module. As a consequence, a new instance\n   will be created for every injectable provided in \text{\'root\text{\'}} (via\n   \{ @link Injectable\#providedIn `providedIn` \}).\n
* If this
is not your intention, you can have a shared module (that will act as act as the \root\n * module) and create all
downgraded modules using that module's injector:\n * *
   [example upgrade/static/ts/lite-multi-shared/module.ts
region=\"shared-root-module\"]\n * *
moduleFactoryOrBootstrapFn: NgModuleFactory<T>|n
(\extraProviders: StaticProvider[]) =>
Promise<NgModuleRef<T>>;\n\} string \{\n const lazyModuleName =
  `\$\{UPGRADE_MODULE_NAME\}.lazy$\{++moduleUid\}`;\n const lazyModuleRefKey =
  `\$\{LAZY_MODULE_NAME\}.lazy$\{lazyModuleName\}`;\n const lazyInjectorKey =
  `\$\{INJECTOR_KEY\}.lazy$\{lazyModuleName\}`;\n const bootstrapFn = isFunction(moduleFactoryOrBootstrapFn)
? moduleFactoryOrBootstrapFn : \n (\extraProviders: StaticProvider[]) =>
platformBrowser(\extraProviders).bootstrapModuleFactory(
 moduleFactoryOrBootstrapFn);\n let injector:
Injector;\n // Create an ng1 module to bootstrap.\n angularModule(lazyModuleName, [])\n .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Lite)\n .factory(INJECTOR_KEY,
 [lazyInjectorKey, identity])\n .factory(lazyInjectorRefKey)\n .factory(lazyModuleRefKey)\n .factory($injector: IInjectorService) => {
 setTempInjectorRef($injector);
 const result: LazyModuleRef = {
 promise: bootstrapFn(angular1Providers).then(ref => {
 injector = result.injector = new
NgAdapterInjector(ref.injector);
 injector.get($INJECTOR).\n return injector;\n })\n \n return result;\n })\n .config($INJECTOR, SPROVIDE,\n (Injector, Sprovision, ServiceProvider) => {\n $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount(injector) + 1);\n return lazyModuleName;\n });\n return result.$onChanges;\n});\n if (injector) {\n throw new Error(`
 Trying to get the Angular injector before bootstrapping the corresponding ` +\n 'Angular module:');\n return injector;\n }\n .factory(LAZY_MODULE_REF,
 [lazyModuleRefKey, identity])\n .factory(lazyInjectorRefKey)\n .factory($INJECTOR,\n (injector: InjectorService) => {\n setTempInjectorRef(injector);\n const result: LazyModuleRef = {
 promise: bootstrapFn(angular1Providers),\n then(ref => {\n injector = result.injector = new
NgAdapterInjector(ref.injector);\n injector.$injector.$get($INJECTOR).\n return injector;\n })\n \n return result;\n })\n .config($INJECTOR, SPROVIDE,\n (Injector, Sprovision, ServiceProvider) => {\n $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount(injector) + 1);\n return lazyModuleName;\n });\n throw new Error(`
 Trying to get the Angular injector before bootstrapping the corresponding ` +\n 'Angular module:');\n return injector;\n }}

function identity<T = any>(x: T): T {
 return x;
}
IAugmentedjQuery): string|Promise<string> {
  if (directive.template !== undefined) {
    return getOrCall<string>(directive.template, $element);
  } else if (directive.templateUrl) {
    const templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
    const url = getOrCall<string>(directive.templateUrl, $element);
    if (template !== undefined) {
      return template;
    } else if (!fetchRemoteTemplate) {
      throw new Error('loading directive templates asynchronously is not supported');
    } else {
      throw new Error('Directive

`{[directivename]` is not a component, it is missing template.');
    }
    $element[$injector.get($HTTP_BACKEND) as IHttpBackendService]('GET', url, null, (status: number, response: string) => {
      if (status === 200) {
        return $templateCache.put(url, response);
      } else {
        throw new Error(`GET component template from '${url}' returned '${status}: ${response}'`);
      }
    });
  } else {
    throw new Error(`Directive

`{[directivename]` is not a component, it is missing template.');
  }
}

buildController(controllerType: IController, $scope: IScope) {
  // TODO: Document that we do not pre-assign bindings on the controller instance.
  // Quoted properties below so that this code can be optimized with Closure Compiler.
  const locals = {
    $scope: $scope, 'Element': this.$element
  };
  const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
  $element.data !(controllerKey(this.directive.name!), controller);
  return controller;
}

compileTemplate(template?: string): ILinkFn {
  if (template === undefined) {
    template = UpgradeHelper.getTemplate($injector, this.directive, false, this.$element) as string;
  }

  return this.compileHtml(template);
}

onDestroy($scope: IScope, controllerInstance?: any) {
  if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
    controllerInstance.$onDestroy();
  }
  $scope.$destroy();

  angularElement.cleanData([this.element]);
  angularElement.cleanData(this.element.querySelectorAll('*'));
}

prepareTransclusion(): ILinkFn|undefined {
  const transclude = this.directive.transclude;
  const contentChildNodes = this.extractChildNodes();
  const slots = Object.create(null);

  if (typeof transclude === 'object') {
    let $template = contentChildNodes;
    let slotMap = Object.create(null);
    let filledSlots = Object.create(null);

    // Parse the element selectors.

    Object.keys(transclude).forEach(slotName => {
      let selector = transclude[slotName];
      const optional = selector.charAt(0) === '?';
      selector = optional ? selector.substring(1) : selector;

      slotMap[directiveNormalize(selector.toLowerCase())] = slotName;
      slots[slotName] = null; // 'null': Defined but not yet filled.
      filledSlots[slotName] = false; // Consider optional slots as filled.
    });

    // Add the matching elements into their slot.

    contentChildNodes.forEach(node => {
      let slotName = directiveNormalize(node.nodeName.toLowerCase());
      if (slotName) {
        filledSlots[slotName] = true;
        slots[slotName] = slots[slotName] || [];
      } else {
        throw new Error('Required transclusion slot

`{[slotName]` on directive: `{[this.name]}` is missing.');
      }
    });

    Object.keys(filledSlots).filter(slotName => transclude[slotName].length > 0).forEach(slotName => {
      let nodes = filledSlots[slotName];
      let contextChildNodes = transclude[slotName];
      contextChildNodes.forEach(node => {
        let slotMap = directiveNormalize(node.nodeName.toLowerCase());
        Object.keys(filledSlots).forEach(slotName => {
          if (filledSlots[slotName]) {
            throw new Error('Required transclusion slot

`{[slotName]` on directive: `{[this.name]}` is missing.');
          }
        });
      });

      let slotNodes = transclude[slotName];
      slotNodes.forEach(node => {
        let node = node.nodeName.toLowerCase();
        Object.keys(slotMap).forEach(slot => {
          if (slotMap[slot]) {
            throw new Error('Required transclusion slot

`{[slotName]` on directive: `{[this.name]}` is missing.');
          }
        });
      });
    });

    // Clean the jQuery/jqLite data on the component+child elements.

    // Enable the cleanData DOM event

    angularElement.cleanData([this.element]);
    angularElement.cleanData(this.element.querySelectorAll('*'));
  }

  return transclude && transclude.nodeType ? transclude : undefined;
}

compileHtml(template?: string): ILinkFn {
  if (template === undefined) {
    template = UpgradeHelper.getTemplate($injector, this.directive, false, this.$element) as string;
  }

  return this.compileHtml(template);
}


attachChildrenFn.$$slots = slots; // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But AngularJS // removes all text content after the first interpolation and updates it later, after // evaluating the expressions. This would result in AngularJS failing to recognize text // nodes that start with an interpolation as transcluded content and use the fallback // content instead. // To avoid this issue, we add // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner) // to empty text nodes (which can only be a result of Angular removing their initial content).

NOTE: Transcluded text content that starts with whitespace followed by an interpolation will still fail to be detected by AngularJS v1.6+. $Template.forEach(node => { // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular
      // removes all text content after the first interpolation and updates it later, after evaluating the expressions. This would result in AngularJS failing to recognize text nodes that start with an interpolation as transcluded content and use the fallback content instead. // To avoid this issue, we add // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner) // to empty text nodes (which can only be a result of Angular removing their initial content).

NOTE: Transcluded text content that starts with whitespace followed by an interpolation will still fail to be detected by AngularJS v1.6+. $Template.forEach(node => {
  if (node.nodeType === Node.TEXT_NODE && !node.nodeValue)
  { // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular
    node.nodeValue = '\u200C'; // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)
  }
}

return attachChildrenFn;

function getOrCall<T>(property: T | Function, ...args: any[]) {
  return isFunction(property) ? property(...args) : property;
}

function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}

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 * can be found in the LICENSE file at https://angular.io/license
 */

import {DoCheck, ElementRef, EventEmitter, OnChanges, OnDestroy, OnInit, SimpleChanges, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {IAugmentedJQuery, IControllerInstance, IEventArray, IFlattenedOM, IFlattenedOMMap, IFlattenedOMProperty, IInjectorService, ILinkFn, IObserverArray, IPathObserver, IPropertyObserver, IScope, ITranscludeFunction} from '@angular/core';

import {IBindingDestination, IControllerInstance, UpgradeHelper} from '@angular/core';

const INITIAL_VALUE = {
  __UNINITIALIZED__: NOT_SUPPORTED
};

export function getOrCall<T>(property: T | Function, ...args: any[]) {
  return isFunction(property) ? property(...args) : property;
}

function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}

Open Source Used In MSX SD-WAN Service Pack 4.0.0 18578
class Bindings {
  twowayBoundProperties: string[] = [];
  twowayBoundLastValues: any[] = [];
  propertyToOutputMap: {[propName: string]: string} = {}
}

class Bindings {
  twowayBoundProperties: string[] = [];
  twowayBoundLastValues: any[] = [];

  expressionBoundProperties: string[] = [];

  propertyToOutputMap: {[propName: string]: string} = {};
}

/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used from
 * Angular.
 * Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that
 * support AOT compilation.
 * This helper class should be used as a base class for creating Angular directives
 * that wrap AngularJS components that need to be "upgraded".
 * We must create a `Directive` that will make this AngularJS component
 * available inside Angular templates. We *must* include an `@link Directive` decorator.
 * This is because the AOT compiler requires that this information is statically available at compile time.
 * Note that we must do the following:
 * * specify the directive's selector (`ng1-hero`) * * specify all inputs and outputs that the AngularJS component expects
 * * derive from `UpgradeComponent` base class but also provide an `@link Directive` decorator.
 * Note that we must do the following:
 * * specify the directive's selector (`ng1-hero`) * * specify all inputs and outputs that the AngularJS component expects
 * * derive from `UpgradeComponent` base class but also provide an `@link Directive` decorator.
 * Let's assume that you have an AngularJS component called `ng1Hero` that needs to be made available in
 * Angular templates. In this example you can see that we must derive from the `UpgradeComponent` base class but also provide an `@link Directive` decorator.
 * This is because the AOT compiler requires that this information is statically available at compile time.
 * 
 * Note that we must do the following:
 * * specify the directive's selector (`ng1-hero`) * * specify all inputs and outputs that the AngularJS component expects
 * * derive from `UpgradeComponent` base class but also provide an `@link Directive` decorator.
 * Let's assume that you have an AngularJS component called `ng1Hero` that needs to be made available in
 * Angular templates. In this example you can see that we must derive from the `UpgradeComponent` base class but also provide an `@link Directive` decorator.
 * This is because the AOT compiler requires that this information is statically available at compile time.
 * Note that we must do the following:
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 * * derive from `UpgradeComponent` base class but also provide an `@link Directive` decorator.
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 * Note that we must do the following:
 * * specify the directive's selector (`ng1-hero`) * * specify all inputs and outputs that the AngularJS component expects
 * * derive from `UpgradeComponent` base class but also provide an `@link Direct
import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';
import {InjectorService, IntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../../src/common/src/util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation.
 * The `upgrade/static` package contains helpers that allow AngularJS and Angular components to be used together inside a hybrid upgrade application, which supports AOT compilation. Specifically, the classes and functions in the `upgrade/static` module allow the following:
 *
 * 1. Creation of an Angular directive that wraps and exposes an AngularJS component so that it can be used in an Angular template. See `UpgradeComponent`.
 *
 * 2. Creation of an AngularJS directive that wraps and exposes an Angular component so that it can be used in an AngularJS template. See `downgradeComponent`.
 *
 * 3. Creation of an Angular root injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context. See `UpgradeModule#upgrading-an-angular-1-service`.
 *
 * 4. Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an AngularJS context. See `downgradeInjectable`.
 *
 * 5. Bootstrapping of a hybrid Angular application which contains both of the frameworks coexisting in a single application. See `UpgradeModule#bootstrap`.
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level.
 *
 * 1. There are two independent frameworks running in a single application, each framework treats the other as a black box.
 *
 * 2. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.
 *
 * 3. AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated.
 *
 * 4. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.
 *
 * 5. An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which bootsraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.
 *
 * 6. An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which bootsraps the Angular component at its location in the DOM. See `downgradeComponent`.
 *
 * 7. Whenever an "upgraded" element is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component.
 *
 * This implies that the component bindings will always follow the semantics of the framework they are instantiated in.
 *
 * 2. The DOM attributes are parsed by the framework that owns the current template. So all attributes in AngularJS templates must use kebab-case, while AngularJS templates must use camelCase.
 *
 * 3. However the template binding syntax will always use the Angular style, e.g. square brackets (`[...]`) for property binding.
 *
 * 4. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
 *
 * 5. The `UpgradeModule` class wraps the hybrid upgrade application.
 *
 * 6. Importing this `NgModule` will add providers for the core AngularJS services.
 *
 * Runtime instance of this class contains a `@link UpgradeModule#bootstrap` method, which you use to
bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app. It also contains properties to access the [UpgradeModule#injector root injector], the *Bootstrap 'NgZone' and the [AngularJS $injector](https://docs.angularjs.org/api/auto/service/$injector). * Import the 'UpgradeModule' into your top level [NgModule Angular 'NgModule'] and use it to bootstrap the top level

```typescript
@publicApi
@NgModule({providers: [angular1Providers]})
export class UpgradeModule {
  /**
   * The AngularJS `$injector` for the upgrade application.
   */
  public $injector: any /*angular.IInjectorService*/;
  /**
   * The Angular Injector **/
   * public injector: Injector;

  constructor(
      /** The root `Injector` for the upgrade application. */
      injector: Injector,
      /** The bootstrap zone for the upgrade application */
      public ngZone: NgZone) {
    this.injector = new NgAdapterInjector(injector);
  }

  /**
   * Bootstrap an AngularJS application from this NgModule
   * @param element the element on which to bootstrap the AngularJS application
   * @param [modules] the AngularJS modules to bootstrap for this application
   * @param [config] optional extra AngularJS bootstrap configuration
   */
  bootstrap(
      element: Element, modules: string[] = [],
      config?: any /*angular.IAngularBootstrapConfig*/) {
    const INIT_MODULE_NAME = UPGRADE_MODULE_NAME + '.init';

    // Create an ng1 module to bootstrap
    const initModule =
        angularModule(INIT_MODULE_NAME, [])
            .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
            .value(INJECTOR_KEY, this.injector)
            .factory(
                LAZY_MODULE_REF,
                [INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef))
            .config(
                $PROVIDE, $INJECTOR,
                ($provide: IProvideService, $injector: IInjectorService) => {
                  if ($injector.has($$TESTABILITY)) {

                    $provide.decorator($$TESTABILITY, [SDELEGATE], (testabilityDelegate: ITestabilityService) => {
                      const originalWhenStable: Function = testabilityDelegate.whenStable;
                      // Cannot use arrow function below because we need the context
                      const newWhenStable = function(callback: Function) {
                        originalWhenStable.call(testabilityDelegate, function() {
                          const ng2Testability: Testability =
                              injector.get(Testability);
                          if (ng2Testability.isStable()) {
                            callback();
                          } else {
                            newWhenStable.call(testabilityDelegate, callback);
                          }
                      });
                    };

                    $provide.decorator($INTERVAL, [SDELEGATE], (intervalDelegate: IIntervalService) => {
                      // Wrap the Sinterval service so that setInterval is called outside NgZone,
                      // but the callback is still invoked within it. This is so that $interval
                      // won't block stability, which preserves the behavior from AngularJS.
                      let wrappedInterval =
                          (fn: Function, delay: number, count?: number, invokeApply?: boolean, ...pass: any[]) => {
                        return this.ngZone.runOutsideAngular(() => {
                          this.$rootScope.$apply(() => {
                            intervalDelegate(fn, delay, count, invokeApply, ...pass); // $rootScope.$apply
                          });
                        });
                      };
                    });
                  }

                  if ($injector.has($INTERVAL)) {
                    $provide.decorator($INTERVAL, [SDELEGATE], (intervalDelegate: IIntervalService) => {
                      // Wrap the Sinterval service so that setInterval is called outside NgZone,
                      // but the callback is still invoked within it. This is so that $interval
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                      let wrappedInterval =
                          (fn: Function, delay: number, count?: number, invokeApply?: boolean, ...pass: any[]) => {
                        return this.ngZone.runOutsideAngular(() => {
                          this.$rootScope.$apply(() => {
                            intervalDelegate(fn, delay, count, invokeApply, ...pass); // $rootScope.$apply
                          });
                        });
                      };
                    });
                  }

                });
```
the callback in NgZone will
// cause a 'digest already in progress' error if it's in the
// same vm turn.
setInterval(() => { this.ngZone.run(() => fn(...args)); }, 0);
            })(wrappedInterval as any)["cancel"] = intervalDelegate.cancel;
                    return wrappedInterval;
            }
        }
    })
    .run(
        $INJECTOR, ($injector: IInjectorService) => {
            this.$injector = $injector;
            setTempInjectorRef($injector);
            this.injector.get($INJECTOR);
            angularElement(element).data
                [controllerKey(INJECTOR_KEY), this.injector];
            this.$injector.$on('$destroy', () => { subscription.unsubscribe(); });
            if ($rootScope.$$phase) {
                if (isDevMode()) {
                    console.warn(`A digest was triggered while one
already in progress. This may mean that something is triggering
digests outside the Angular zone.`);
                }
            }
            return $rootScope.$evalAsync();
        }
    }, 0);
}

const upgradeModule = angularModule(UPGRADE_MODULE_NAME, [INIT_MODULE_NAME].concat(modules));

// Make sure resumeBootstrap() only exists if the current
bootstrap is deferred
const windowAngular = (window as any)['angular'];
windowAngular.resumeBootstrap = undefined;
// Bootstrap the AngularJS application inside our zone
windowAngular.run(() => { bootstrap(element, [upgradeModule.name], config); });

// Patch resumeBootstrap() to run inside the ngZone
if (windowAngular.resumeBootstrap) {
    const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
    windowAngular.resumeBootstrap = function() {
        let args = arguments;
        windowAngular.resumeBootstrap = originalResumeBootstrap;
        return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
    };
}

export {getAngularJSGlobal, getAngularLib, setAngularJSGlobal, setAngularLib} from
    '../src/common/src/angular1';
export {downgradeComponent} from
    '../src/common/src/downgrade_component';
export {downgradeInjectable} from
    '../src/common/src/downgrade_injectable';
export {VERSION} from '../src/common/src/version';
export {downgradeModule} from './src/downgrade_module';
export {UpgradeComponent} from
    './src/upgrade_component';
export {UpgradeModule} from './src/upgrade_module';

// This file only re-exports
// items to appear in the public api. Keep it that way.

export * from './public_api';

export * from './index';

export {angular1Providers as
   ɵangular_packages_upgrade_static_static_e, compileFactory as
   ɵangular_packages_upgrade_static_static_c, injectorFactory as
   ɵangular_packages_upgrade_static_static_a, parseFactory as
   ɵangular_packages_upgrade_static_static_d, rootScopeFactory as
   ɵangular_packages_upgrade_static_static_b} from
    './src/angular1_provider';

"names": ["Injector", "ChangeDetectorRef", "Testability", "TestabilityRegistry", "Applica
tionRef", "SimpleChange", "NgZone", "ComponentFactoryResolver", "Version", "NOT_FOUND_CHECK_ONLY_EL-
EMENT_INJECTOR", "platformBrowser", "angularModule", "angularElement", "INITIAL_VALUE", "looseIdentical",
"EventEmitter", "element", "isDevMode", "NgModule"];"mappings": ";;;;;;;;;;;;IAAA;;;;;;;IA0NA,SAAS,IAAI;QAC
AAe,CAAC,SAAc;QACrC,OOAO,OOAO,SAAS,CAAC,UAAC,UAUA,YA7C0,OOAO,SAAS,CAAC,QAAC,gBBAAgB,KAACK,UAUA,CAAC;IAACD,CAAC;IAED;...;AAIA,aAAgB,aAAa,CAAC,OOAA2B,EEAE,SAAC;QAaE,EI AI,OOAO,IAAI,eAAe,CAAC,SAAS,CAAC,EAAE;YACcO,OOAO,CAAC,OOAO,GAAG,cAAQ,SAAS,CAAC, UAAOI,CAAO,CAAC,UAAC,CAAC,EAAE,CAAC;YACcE,SAAS,CAAC,gBAgB,CAAC,OOAO, CAAC,aAAa,CAAC,IAAI,CAAC,OOAO,CAAC,CAAC,CAAC,CAAC;CAAC,CAAC;CAAC;IAE3D,CAAC;C\C I\D;...;AAQA,IAOA,IAAM,aAAa,GAAG;QA\CpB,iBAaIB,EEAE,IAAI,KAA\cB,CAAC;IAA\E;QAaE,mC\AC\Y, OAyBEAAU,KAACK,EAAC,EAAC,KAA\cE,OA2B,EAAC,CAAC,IAE3D,SA2B,EAAC,KAA\yBE,AQAC9D,MA AQBEAAU,gBAAC,EAAC;YA\ycY,CAAC,YA\ycY,CAAC,GAAP,OOAO,CAAC,UAAC,YUAAC,GAAL,KAACK,CAA aYUAAC,UAAC,GAAL,KAACK,CAAC;QAC;CAAC,CAAC,CAAC,CAAC,CEAC,CAAC,CAAC;IAE3D;I\AC\AI,CAAC;CAAC;CAAC,CAAC;IAE3D;AAQA,aAAgBEAAC,EAAC;IAAS,IAAS;QAAC,C I\C\J\D;...;AAQA,IAOA,IAAM,aAAa,GAAG;QA\CpB,iBAaIB,EEAE,IAAI,KAA\cB,CAAC;IAA\E;QAaE,mC\AC\Y, OAyBEAAU,KAACK,EAAC,EAAC,KAA\cE,OA2B,EAAC,CAAC,IAE3D,SA2B,EAAC,KAA\yBE,AQAC9D,MA AQBEAAU,gBAAC,EAAC;YA\ycY,CAAC,YA\ycY,CAAC,GAAP,OOAO,CAAC,UAAC,YUAAC,GAAL,KAACK,CAA aYUAAC,UAAC,GAAL,KAACK,CAAC;QAC;CAAC,CAAC,CAAC,CAAC,CEAC,CAAC,CAAC;IAE3D;I\AC\AI,
ACtB,IAAIC,cAAS,EAAE,EAAE;oCACf,OAAO,CAAC,IAAI,CACR,wIAAwI,CAAC,CAAC;iCAC/I;gCAED,O
AAO,UAAU,CAAC,UAAU,EAAE,CAAC;6BAChC;4BAED,OAAO,UAAU,CAAC,OAAO,EAAE,CAAC;yBAC7
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C,EAAE,CAAC,CAAC;qBACnE,EAAE,CAAC,CAAC,CAAC;iBACP;aACF,CAAC,CAAC;YAEX,IAAM,aAAa,
GAAGN,OAAa,CAAC,mBAAmB,EAAE,CAAC,gBAAgB,CAAC,CAAC,MAAM,CAAC,OAAO,CAAC,CAAC,C
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,CAAC;;YAG1C,IAAI,CAAC,MAAM,CAAC,GAAG,CAAC,cAAQ,SAAS,CAACK,SAAO,EAAE,CAAC,aAAa,
CAAC,IAAI,CAAC,EAAE,MAAM,CAAC,CAAC,EAAE,CAAC,CAAC;;YAG7E,IAAI,aAAa,CAAC,eAAe,EAA
E;gBACjC,IAAM,yBAAuB,GAAe,aAAa,CAAC,eAAe,CAAC;gBAC1E,IAAM,QAAM,GAAG,IAAI,CAAC,MAA
M,CAAC;gBAC3B,aAAa,CAAC,eAAe,GAAG;oBAAA,iBAI/B;oBAHC,IAAI,IAAI,GAAG,SAAS,CAAC;oBACr
B,aAAa,CAAC,eAAe,GAAG,yBAAuB,CAAC;oBACxD,OAAO,QAAM,CAAC,GAAG,CAAC,cAAM,OAAA,aA
Aa,CAAC,eAAe,CAAC,KAAK,CAAC,KAAI,EAAE,IAAI,CAAC,GAAA,CAAC,CAAC;iBAC1E,CAAC;aACH;S
ACF;QApJU,aAAa;YADzBE,aAAQ,CAAC,EAAC,SAAS,EAAE,CAAC,iBAAiB,CAAC,EAAC,CAAC;6CAW3B
lB,aAAQ;gBAEHM,WAAM;WAZd,aAAa,CAqJzB;QAAD,oBAAC;KArJD;;ICjJA;;;;;;;AAQA,IASA,iFAAiF;;ICj
BjF;;;;;;OAMG;;ICNH;;OAEG;;;;;;;;;;;;;;;;;;;;;;;;;;"}
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgradestatic.umd.js.map
No license file was found, but licenses were detected in source scan.
{"version":3,"file":"static__testing.js","sources":["../../../../../../packages/upgrade/src/common/src/angular1.ts","../../..
/../../../packages/upgrade/src/common/src/constants.ts","../../../../../../packages/upgrade/static/testing/src/create_angul
ar_testing_module.ts","../../../../../../packages/upgrade/static/testing/src/create_angularjs_testing_module.ts","../../../../
../../packages/upgrade/static/testing/testing.ts"],"sourcesContent":["/**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nexport type Ng1Token = string;\n\nexport type Ng1Expression =
string | Function;\n\nexport interface IAnnotatedFunction extends Function {\n // Older versions of
`@types/angular` typings extend the global `Function` interface with\n // `$inject?: string[]`, which is not
compatible with `$inject?: ReadonlyArray<string>` (used in\n // latest versions).\n $inject?: Function
extends{$inject?: string[]}? Ng1Token[]: ReadonlyArray<Ng1Token>;\n}\n\nexport type IInjectable = (Ng1Token |
Function)[] | IAnnotatedFunction;\n\nexport type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};\n\nexport
interface IModule {\n name: string;\n requires: (string|IInjectable)[];\n config(fn: IInjectable): IModule;\n
directive(selector: string, factory: IInjectable): IModule;\n component(selector: string, component: IComponent):
IModule;\n controller(name: string, type: IInjectable): IModule;\n factory(key: Ng1Token, factoryFn: IInjectable):
IModule;\n value(key: Ng1Token, value: any): IModule;\n constant(token: Ng1Token, value: any): IModule;\n
run(a: IInjectable): IModule;\n}\nexport interface ICompileService {\n (element: Element|NodeList|Node[]|string,
transclude?: Function): ILinkFn;\n}\nexport interface ILinkFn {\n (scope: IScope, cloneAttachFn?:
ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n $$slots?: {[slotName: string]:
ILinkFn};\n}\nexport interface ILinkFnOptions {\n parentBoundTranscludeFn?: Function;\n
transcludeControllers?: {[key: string]: any};\n futureParentElement?: Node;\n}\nexport interface
IRootScopeService {\n $new(isolate?: boolean): IScope;\n $id: string;\n $parent: IScope;\n $root: IScope;\n
$watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;\n $on(event: string, fn?: (event?: any,
...args: any[]) => void): Function;\n $destroy(): any;\n $apply(exp?: Ng1Expression): any;\n $digest(): any;\n
$evalAsync(exp: Ng1Expression, locals?: any): void;\n $on(event: string, fn?: (event?: any, ...args: any[]) => void):
Function;\n $$childTail: IScope;\n $$childHead: IScope;\n $$nextSibling: IScope;\n [key: string]: any;\n}\nexport
interface IScope extends IRootScopeService {}\n\nexport interface IAngularBootstrapConfig { strictDi?: boolean;
}\nexport interface IDirective {\n compile?: IDirectiveCompileFn;\n controller?: IController;\n controllerAs?:

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string;
  bindToController?: boolean;
  components?: {
    [key: string]: string;
  };
  controller?: any;
  controllerAs?: string;
  dependencies?: string[];
  $subs?: {
    [key: string]: string;
  };
  dirName?: string;
  enableTrailingSlash?: boolean;
  expression?: string;
  errors?: string[];
  expressionError?: string[];
  filter?: string;
  firstname?: string;
  firstnameFormatters?: string[];
  formatters?: string[];
  formSubmit?: boolean;
  getCompiledExpression?: Function;
  hasDirectives?: boolean;
  items?: string[];
  isDisabled?: boolean;
  isDirty?: boolean;
  isFormValueSet?: boolean;
  isInvalid?: boolean;
  isOptionSelected?: boolean;
  isPristine?: boolean;
  isRequired?: boolean;
  isTemplate?: boolean;
  isTouched?: boolean;
  isViewValueSet?: boolean;
  isVirtual?: boolean;
  isWebStorageAvailable?: boolean;
  itemIndex?: number;
  itemScope?: boolean;
  itemText?: string;
  isTemplateCache?: boolean;
  isInvalidValueSet?: boolean;
  isViewValue?: boolean;
  isViewValueSet?: boolean;
  isVirtualValue?: boolean;
  itemValue?: string;
  itemViewValue?: string;
  key?: string;
  keyPress?: string;
  keyPressed?: string;
  keyPressedEventKey?: string;
  keyPressEventKey?: string;
  keyPressEventKeyCode?: number;
  keyPressEventShiftKey?: boolean;
  keyPressEventCtrlKey?: boolean;
  keyPressEventAltKey?: boolean;
  keyPressEventMetaKey?: boolean;
  keyPressEventCode?: number;
  lastKeyUpEventKey?: string;
  lastKeyDownEventKey?: string;
  lastKeyPressEventKey?: string;
  lastKeyPressEventKeyCode?: number;
  lastKeyPressEventShiftKey?: boolean;
  lastKeyPressEventCtrlKey?: boolean;
  lastKeyPressEventAltKey?: boolean;
  lastKeyPressEventMetaKey?: boolean;
  lastKeyPressEventCode?: number;
  lastKeyReleaseEventKey?: string;
  lastKeyReleaseEventCode?: number;
  lastKeyReleaseEventShiftKey?: boolean;
  lastKeyReleaseEventCtrlKey?: boolean;
  lastKeyReleaseEventAltKey?: boolean;
  lastKeyReleaseEventMetaKey?: boolean;
  lastKeyReleaseEventKeyCode?: number;
  lastKeyReleaseEventPhase?: number;
  lastKeyPressEventPhase?: number;
  lastKeyReleaseEventPhase?: number;
  lastKeyPressEventBubblePhase?: number;
  lastKeyPressEventAtPhase?: number;
  lastKeyPressEventCapturePhase?: number;
  lastKeyPressEventAtCapturePhase?: number;
  lastKeyPressEventCapturePhase?: number;
  lastKeyPressEventAtPhase?: number;
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  lastKeyPressEventAtCapturePhase?: number;
  lastKeyPressEventAtCapturePhase?: number;
  lastKeyPressEventAtPhase?: number;
  lastKeyPressEventAtCapturePhase?: number;
  lastKeyPressEventAtCapturePhase?: number;
$invalid: boolean;
$nام: string;

function noNg(): never {
  throw new Error('AngularJS v1.x is not
loaded!');
}

const noNgElement: typeof angular.element = () => noNg();

const noNg: typeof angular.element;

module: (prefix: string, dependencies?: string[]) =>

InjectorService;

module: (prefix: string, dependencies?: string[]) =>

InjectorService;

module: (prefix: string, dependencies?: string[]) =>

InjectorService;

module: (prefix: string, dependencies?: string[]) =>

InjectorService;

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module: (prefix: string, dependencies?: string[]) =>

InjectorService;

module: (prefix: string, dependencies?: string[]) =>

InjectorService;

module: (prefix: string, dependencies?: string[]) =>

InjectorService;

module: (prefix: string, dependencies?: string[]) =>

InjectorService;
upgraded AngularJS

services.

This function returns an `NgModule` decorated class that is configured to wire up the Angular
and AngularJS injectors without the need to actually bootstrap a hybrid application.

This makes it simpler and faster to unit test services.

Use the returned class as an `import` when configuring the `TestBed`.

In the following code snippet, we are configuring the TestBed with two imports.

The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the AngularJS part.

Once this is done we can get hold of services via the Angular `Injector` as normal.

Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as

as needed by the AngularJS `Sinjector`.

In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`.

This helper is for testing services not Components.

For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Only call this helper once per spec.

Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

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import {Injector} from '@angular/core';
import { TestBed } from '@angular/core/testing';

import * as ng from '../../../src/common/src/angular1';
import {INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';
import {UpgradeAppType} from '../../../src/common/src/util';

/**
 * A helper function to use when unit testing AngularJS services that depend upon downgraded Angular services.
 *
 * This function returns an AngularJS module that is configured to wire up the AngularJS and Angular
 * injectors without the need to actually bootstrap a hybrid application.
 * This makes it simpler and faster to unit test services.
 * Use the returned AngularJS module in a call to
 */

[angular.mocks.module](https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to include this module in the unit test injector.

* In the following code snippet, we are configuring the `Sinjector` with two modules:

  * The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and
  * `Ng2AppModule`, which is the Angular part.

Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`.

In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

This helper is for testing services not components.

For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.
The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`. The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
export function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module_('$$angularJSTestingModule', angularModules)
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory(INJECTOR_KEY, function($INJECTOR) {
      TestBed.configureTestingModule({
        imports: angularModules,
        providers: [{provide: $INJECTOR, useValue: $injector}]
      });
      return TestBed.inject($INJECTOR);
    })
    .name;
}
```

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
export * from './index';
export {module_ as ɵangular_packages_upgrade_static_testing_testing_a} from '../../src/common/src/angular1';
export {INJECTOR_KEY as ɵangular_packages_upgrade_static_testing_testing_d, UPGRADE_APP_TYPE_KEY as ɵangular_packages_upgrade_static_testing_testing_b} from '../../src/common/src/constants';
export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from '../../src/common/src/util';
```
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```javascript
/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

(function (global, factory) {
    typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports, require('@angular/core'), require('@angular/platform-browser')) :
    typeof define === 'function' && define.amd ?
    define('@angular/upgrade/static', ['exports', '@angular/core', '@angular/platform-browser'], factory) :
    (global =
    global || self, factory((global.ng =
    global.ng || {},
    global.ng.upgrade =
    global.ng.upgrade || {},
    global.ng.upgrade.static = {}),
    global.ng.core,
    global.ng.platformBrowser));
}(this,
    (function (exports, core, platformBrowser) { 'use strict';

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    function noNg() {
        throw new Error('AngularJS v1.x is not loaded!');
    }
    var noNgElement = (function () { return noNg(); });
    noNgElement.cleanData = noNg;
    var angular = {
        bootstrap: noNg,
        module: noNg,
        element: noNgElement,
        injector: noNg,
        version: undefined,
        resumeBootstrap: noNg,
        getTestability: noNg
    };
    try {
        if (window.hasOwnProperty('angular')) {
            angular = window.angular;
        }
    }
    catch (_a) {
        // ignore in CJS mode.
    }
    /**
     * @deprecated Use `setAngularJSGlobal` instead.
     *
     * @publicApi
     */
    function setAngularLib(ng) {
        setAngularJSGlobal(ng);
    }
    /**
     * Returns the current AngularJS global.
     *
     * @publicApi
     */
    function getAngularLib() {
        return getAngularJSGlobal();
    }
    /**
     * Resets the AngularJS global.
     *
     * Used when AngularJS is
     * loaded lazily, and not available on `window`.
     *
     * @publicApi
     */
    function setAngularJSGlobal(ng) {
        angular = ng;
    }
    var bootstrap = function (e, modules, config) {
        return angular.bootstrap(e, modules, config);
    };
    // Do not declare as `module` to avoid webpack bug
    // (see https://github.com/angular/angular/issues/30050).
    var module_ = function (prefix, dependencies) {
        return angular.module(prefix, dependencies);
    };
    var element = (function (e) { return angular.element(e); });
    element.cleanData = function (nodes) { return angular.element.cleanData(nodes); };
    var injector = function (modules, strictDi) { return angular.injector(modules, strictDi); };
    var resumeBootstrap = function () {
        return angular.resumeBootstrap();
    };
    var getTestability = function (e) {
        return angular.getTestability(e); };
    /(*****************************************************************************
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    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
    THIS CODE IS PROVIDED ON AN *AS IS* BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED,
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    MERCHANTABILITY OR NON-INFRINGEMENT. See the Apache Version 2.0 License for specific language governing permissions and limitations under the License.
    ****************************************************************************/
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```javascript
function __assign(target, source) {
    for (var i in source)
        if (Object.prototype.hasOwnProperty.call(source, i))
            target[i] = source[i];
    return target;
}

function __awaiter(thisArg, _arguments, P, generator) {
    return new (P || (P = Promise))(function (resolve, reject) {
        function step(result) {
            if (result.done) 
                resolve(result.value);
            else if (typeof result.value === 'object' && result.value instanceof Function)
                return step(result.value.apply(this, arguments));
            else if (typeof result.value === 'function')
                return step(result.value.call(thisArg, _arguments || []));
            if (result.value === 4)
                return step((generator = generator.apply(thisArg, _arguments || [])).next());
            if (result.value === 0)
                resolve(result.value);
            else if (result.value === 1)
                reject(result.value);
            else if (result.value === 2)
                throw result.value;
            else if (result.value === 3)
                return step((generator = generator.apply(thisArg, _arguments || [])).throw(result.value));
            else
                step((generator = generator.apply(thisArg, _arguments || [])).return());
        }
        step((generator = generator.apply(thisArg, _arguments || [])).next());
    });
}

__exportStar(m, exports) {
    for (var i = 0; i < exports.length; i++) exports[i] = exports[i].apply(thisArg, arguments);
{\n
__UNINITIALIZED__: true\n };\n var DowngradeComponentAdapter = /** @class */ (function () {\n
function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile,
$parse, componentFactory, wrapCallback) {\n
this.element = element;\n
this.attrs = attrs;\n
this.scope = scope;\n
this.ngModel = ngModel;\n
this.parentInjector = parentInjector;\n
this.$injector = $injector;\n
this.$compile = $compile;\n
this.$parse = $parse;\n
this.componentFactory = componentFactory;\n
this.wrapCallback = wrapCallback;\n
this.implementsOnChanges = false;\n
this.inputChangeCount = 0;\n
this.inputChanges = {};\n
this.componentScope = scope.$new();\n
}\n
DowngradeComponentAdapter.prototype.compileContents =
function () {\n
var _this = this;\n
var compiledProjectableNodes = [];\n
var projectableNodes =
this.groupProjectableNodes();\n
var linkFns = projectableNodes.map(function (nodes) { return
_this.$compile(nodes); });\n
this.element.empty();\n
linkFns.forEach(function (linkFn) {\n
linkFn(_this.scope, function (clone) {\n
compiledProjectableNodes.push(clone);\n
_this.element.append(clone);\n
});\n
});\n
return compiledProjectableNodes;\n
};\n
DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {\n
var providers
= [{ provide: $SCOPE, useValue: this.componentScope }];\n
var childInjector = core.Injector.create({
providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter' });\n
this.componentRef =\n
this.componentFactory.create(childInjector, projectableNodes, this.element[0]);\n
this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);\n
this.changeDetector = this.componentRef.changeDetectorRef;\n
this.component =
this.componentRef.instance;\n
// testability hook is commonly added during component bootstrap in\n
// packages/core/src/application_ref.bootstrap()\n
// in downgraded application, component creation will take
place here as well as adding the\n
// testability hook.\n
var testability =
this.componentRef.injector.get(core.Testability, null);\n
if (testability) {\n
this.componentRef.injector.get(core.TestabilityRegistry)\n
.registerApplication(this.componentRef.location.nativeElement, testability);\n
}\n
hookupNgModel(this.ngModel, this.component);\n
};\n
DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {\n
var _this = this;\n
if (propagateDigest === void 0) { propagateDigest = true; }\n
var attrs = this.attrs;\n
var inputs = this.componentFactory.inputs || [];\n
var _loop_1 = function (i) {\n
var input =
new PropertyBinding(inputs[i].propName, inputs[i].templateName);\n
var expr = null;\n
if
(attrs.hasOwnProperty(input.attr)) {\n
var observeFn_1 = (function (prop) {\n
var
prevValue = INITIAL_VALUE;\n
return function (currValue) {\n
// Initially, both
`$observe()` and `$watch()` will call this function.\n
if (!strictEquals(prevValue, currValue)) {\n
if (prevValue === INITIAL_VALUE) {\n
prevValue = currValue;\n
}\n
_this.updateInput(prop, prevValue, currValue);\n
prevValue =
currValue;\n
}\n
};\n
})(input.prop);\n
attrs.$observe(input.attr, observeFn_1);\n
// Use `$watch()` (in addition to `$observe()`) in order to
initialize the input in time\n
// for `ngOnChanges()`. This is necessary if we are already in a `$digest`,
which means that\n
// `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
callback.\n
var unwatch_1 = this_1.componentScope.$watch(function () {\n
unwatch_1();\n
unwatch_1 = null;\n
observeFn_1(attrs[input.attr]);\n
});\n
}\n
else if (attrs.hasOwnProperty(input.bindAttr)) {\n
expr = attrs[input.bindAttr];\n
}\n
else if (attrs.hasOwnProperty(input.bracketAttr)) {\n
expr = attrs[input.bracketAttr];\n
}\n
else if (attrs.hasOwnProperty(input.bindonAttr)) {\n
expr =
attrs[input.bindonAttr];\n
}\n
else if (attrs.hasOwnProperty(input.bracketParenAttr)) {\n
expr = attrs[input.bracketParenAttr];\n
}\n
if (expr != null) {\n
var watchFn =
(function (prop) { return function (currValue, prevValue) {\n
return _this.updateInput(prop,
prevValue, currValue);\n
}; })(input.prop);\n
this_1.componentScope.$watch(expr,

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var ngContentSelectors = this.componentFactory.ngContentSelectors;\n
return
groupNodesBySelector(ngContentSelectors, this.element.contents());\n
};\n
return
DowngradeComponentAdapter;\n }());\n /**\n * Group a set of DOM nodes into `ngContent` groups, based
on the given content selectors.\n */\n function groupNodesBySelector(ngContentSelectors, nodes) {\n
var
projectableNodes = [];\n
var wildcardNgContentIndex;\n
for (var i = 0, ii = ngContentSelectors.length; i <
ii; ++i) {\n
projectableNodes[i] = [];\n
}\n
for (var j = 0, jj = nodes.length; j < jj; ++j) {\n
var
node = nodes[j];\n
var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);\n
if (ngContentIndex != null) {\n
projectableNodes[ngContentIndex].push(node);\n
}\n
}\n
return projectableNodes;\n }\n function findMatchingNgContentIndex(element, ngContentSelectors) {\n
var
ngContentIndices = [];\n
var wildcardNgContentIndex = -1;\n
for (var i = 0; i < ngContentSelectors.length;
i++) {\n
var selector = ngContentSelectors[i];\n
if (selector === '*') {\n
wildcardNgContentIndex = i;\n
}\n
else {\n
if (matchesSelector(element, selector)) {\n
ngContentIndices.push(i);\n
}\n
}\n
}\n
ngContentIndices.sort();\n
if
(wildcardNgContentIndex !== -1) {\n
ngContentIndices.push(wildcardNgContentIndex);\n
}\n
return ngContentIndices.length ? ngContentIndices[0] : null;\n }\n var _matches;\n function
matchesSelector(el, selector) {\n
if (!_matches) {\n
var elProto = Element.prototype;\n
_matches =
elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector ||\n
elProto.msMatchesSelector ||
elProto.oMatchesSelector || elProto.webkitMatchesSelector;\n
}\n
return el.nodeType ===
Node.ELEMENT_NODE ? _matches.call(el, selector) : false;\n }\n\n /**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can
be\n * found in the LICENSE file at https://angular.io/license\n */\n function isThenable(obj) {\n
return
!!obj && isFunction(obj.then);\n }\n /**\n * Synchronous, promise-like object.\n */\n var SyncPromise =
/** @class */ (function () {\n
function SyncPromise() {\n
this.resolved = false;\n
this.callbacks =
[];\n
}\n
SyncPromise.all = function (valuesOrPromises) {\n
var aggrPromise = new
SyncPromise();\n
var resolvedCount = 0;\n
var results = [];\n
var resolve = function (idx, value)
{\n
results[idx] = value;\n
if (++resolvedCount === valuesOrPromises.length)\n
aggrPromise.resolve(results);\n
};\n
valuesOrPromises.forEach(function (p, idx) {\n
if
(isThenable(p)) {\n
p.then(function (v) { return resolve(idx, v); });\n
}\n
else {\n
resolve(idx, p);\n
}\n
});\n
return aggrPromise;\n
};\n
SyncPromise.prototype.resolve = function (value) {\n
// Do nothing, if already resolved.\n
if
(this.resolved)\n
return;\n
this.value = value;\n
this.resolved = true;\n
// Run the
queued callbacks.\n
this.callbacks.forEach(function (callback) { return callback(value); });\n
this.callbacks.length = 0;\n
};\n
SyncPromise.prototype.then = function (callback) {\n
if
(this.resolved) {\n
callback(this.value);\n
}\n
else {\n
this.callbacks.push(callback);\n
}\n
};\n
return SyncPromise;\n }());\n\n /**\n * @license\n
* Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style
license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n /**\n * @description\n
*\n * A helper function that allows an Angular component to be used from AngularJS.\n *\n * *Part of the
[upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that support AOT
compilation*\n *\n * This helper function returns a factory function to be used for registering\n * an
AngularJS wrapper directive for \"downgrading\" an Angular component.\n *\n * @usageNotes\n * ###
Examples\n *\n * Let's assume that you have an Angular component called `ng2Heroes` that needs\n * to be
made available in AngularJS templates.\n *\n * {@example upgrade/static/ts/full/module.ts region=\"ng2heroes\"}\n *\n * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive)\n * that
will make this Angular component available inside AngularJS templates.\n * The `downgradeComponent()`
function returns a factory function that we\n * can use to define the AngularJS directive that wraps the
\"downgraded\" component.\n *\n * {@example upgrade/static/ts/full/module.ts region=\"ng2-heroeswrapper\"}\n *\n * For more details and examples on downgrading Angular components to AngularJS

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components please

* visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code)

* @param info contains information about the Component that is being downgraded:

  * `component: Type<any>`: The type of the Component that will be downgraded

  * `downgradedModule?: string`: The name of the downgraded module (if any) that the component

    \`\`belongs to\`, as returned by a call to `downgradeModule()`.

It is the module, whose

* corresponding Angular module will be bootstrapped, when the component needs to be instantiated.

* `<br/>

  * (This option is only necessary when using `downgradeModule()` to downgrade more than one)

  * `Angular module.`

* `- `propagateDigest?: boolean`: Whether to perform [link ChangeDetectorRef#detectChanges](# change detection) on the component on every

  * `$digest`([https://docs.angularjs.org/api/ng/type/$RootScope.Scope#$digest](https://docs.angularjs.org/api/ng/type/$RootScope.Scope#$digest)). If set to `false`,

  * `change detection` will still be performed when any of the component's inputs changes.

* * (Default: `true`) *

* @returns a factory function that can be used to register the component in an

  * AngularJS module.

* @publicAp

* function downgradeComponent(info) {

  var directiveFactory = function ($compile, $injector) {

    // When using `downgradeModule()`, we need to handle certain things specially. For example:

    // - We always need to attach the component view to the `ApplicationRef` for it to be

    //   dirty-checked.

    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the

    //   Angular zone.

    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()`

    // will be run // inside the Angular zone (except if explicitly escaped, in which case we shouldn't

    // force it back in).

    var isNgUpgradeLite = getUpgradeAppType($injector) === 3 /* Lite */;

    var wrapCallback = !isNgUpgradeLite ? function (cb) { return cb; } : function (cb) { return function () { return

    if (!parentInjector || hasMultipleDowngradedModules) {

      var downgradedModule =

        core.NgZone.isInAngularZone() ? cb() : ngZone.run(cb); }

    }

    return {

      restrict: 'E',

      transclude: true,

      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],

      link: function (scope, element, attrs, required) {

        // We might have to compile the contents asynchronously, because this might have been

        // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have

        // been compiled.

        var ngModel = required[1];

        var parentInjector = required[0];

        var moduleInjector = undefined;

        var ranAsync = false;

        if (!parentInjector || hasMultipleDowngradedModules) {

          var downgradeModule =

            info.downgradedModule || 

            lazyModuleRefKey = \"\" + LAZY_MODULE_REF +

            downgradeModule;

          var attemptedAction = \"instantiating component \" +

            validateInjectionKey($injector, downgradedModule,

            lazyModuleRefKey, attemptedAction);

          var lazyModuleRef = $injector.get(lazyModuleRefKey);

          moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise;

        }]

        // Notes:

        // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they

        // might be

        // the same instance, but that is irrelevant):

        // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be

        //   on the same tree as the 'NgModule' that declares this downgraded component:

        // - `finalParentInjector` is used for all other injection purposes.

        // (Note that Angular knows to only traverse the component-tree part of that injector, when

        // looking for an injectable and then switch to the module injector.)

        // There are basically three cases:

        // - If there is no parent component (thus no `parentInjector`), we

        // bootstrap the downgrade

        // `NgModule` and use its injector as both `finalModuleInjector` and

        // `finalParentInjector`.

        // - If there is a parent component (and thus a `parentInjector`) and we

        // are sure that it

        // belongs to the same `NgModule` as this downgraded component (e.g. because there is

        // only

        // one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and

        // `finalParentInjector`.

        // - If there is a parent component, but it may belong to a different

        // `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded

        // component's

        // declaring `NgModule`'s injector as `finalModuleInjector`.

        // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't

        // bootstrap again).
This helper function returns a factory function that provides access to the Angular service identified by the `token` parameter.

* **usageNotes**

### Examples

* **First ensure that the service to be downgraded is provided in an `NgModule`**
* that will be part of the upgrade application. For example, let's assume we have

```typescript
@NgModule({
  declarations: [
    HeroesService
  ],
  exports: [
    HeroesService
  ]
})
```

* Now we can register the `downgradeInjectable` factory function for the service on an AngularJS module.

```typescript
function downgradeInjectable(token, downgradedModule) {
  if (downgradedModule === void 0) { downgradedModule = ''; }
  var factory = function ($injector) {
    var injectorKey = "" + INJECTOR_KEY + downgradedModule;
    var injectableName = isFunction(token) ? getTypeName(token) : String(token);
    var attemptedAction = "instantiating injectable '" + injectableName + "'";
    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
    var injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  factory['$inject'] = ['$INJECTOR'];
  return factory;
}
```

* **validateInjectionKey**

```typescript
function validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction):
  var injector = $injector.get(injectorKey);
  var injectorKey = '$injector', injectorKey = $injector.get(token);
  factory['$injector'] = [INJECTOR_KEY + downgradedModule];
  var injectableName = isFunction(token) ? getTypeName(token) : String(token);
  var attemptedAction = 'instantiating injectable ' + injectableName + ' ' + "referenced as ";
  validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
  var injector = $injector.get(token);
  factory['$injector'] = [INJECTOR_KEY + downgradedModule];
```

* **ng1 Injectables**

```typescript
var injector = $injector.get(token);
factory['$injector'] = [INJECTOR_KEY + downgradedModule];
var injectableName = isFunction(token) ? getTypeName(token) : String(token);
var attemptedAction = 'instantiating injectable ' + injectableName + ' ' + "referenced as ";
validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
```

* **deploy**

```typescript
var tempInjectorRef = null;
function setTempInjectorRef(injector) {
  tempInjectorRef = injector;
}
function rootScopeFactory() {
  return $rootScope;
}
function compileFactory() {
  return $compile;
}
function parseFactory() {
  return $parse;
}
```

* **core**

```typescript
function downgradeInjectable(token, downgradedModule) {
  if (downgradedModule === void 0) { return undefined; }
  var factory = function ($injector) {
    var injectorKey = '$injector', injectorKey = $injector.get(token);
    factory['$injector'] = [INJECTOR_KEY + downgradedModule];
    var injectableName = isFunction(token) ? getTypeName(token) : String(token);
    var attemptedAction = 'instantiating injectable ' + injectableName + ' ' + "referenced as ";
    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
    var injector = $injector.get(token);
    factory['$injector'] = [INJECTOR_KEY + downgradedModule];
```

* **metadata**

```typescript
var angular1Providers = [
  { provide: '$injector', useFactory: injectorFactory, deps: [] },
  { provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector'] },
  { provide: '$compile', useFactory: compileFactory, deps: ['$injector'] },
  { provide: '$parse', useFactory: parseFactory, deps: ['$injector'] },
  { provide: '$controller', useFactory: injectController, deps: ['$injector'] },
  { provide: 'ng1Injectable', useFactory: injectableFactory, deps: ['$injector'] }];
```

* **configure**

```typescript
var app = angular1Injectable();
app.$injector = setupInjector();
app.$templateParser = parseFactory();
app.$compileFactory = compileFactory();
app.$parseFactory = parseFactory();
app.$controllerFactory = controllerFactory();
app.$rootScopeFactory = rootScopeFactory();
```

* **setup**

```typescript
var tempInjectorRef = null;
function setTempInjectorRef(injector) {
  tempInjectorRef = injector;
}
function rootScopeFactory() {
  return $rootScope;
}
function compileFactory() {
  return $compile;
}
function parseFactory() {
  return $parse;
}
```

* **bootstrap**

```typescript
var angular1Providers = [
  { provide: '$injector', useFactory: injectorFactory, deps: [] },
  { provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector'] },
  { provide: '$compile', useFactory: compileFactory, deps: ['$injector'] },
  { provide: '$parse', useFactory: parseFactory, deps: ['$injector'] },
  { provide: '$controller', useFactory: injectController, deps: ['$injector'] },
  { provide: 'ng1Injectable', useFactory: injectableFactory, deps: ['$injector'] }];
```
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'Scompile', useFactory: compileFactory, deps: ['$injector' ],
    {{ provide: 'Sparse', useFactory: parseFactory,
        deps: ['$injector' ]
    ));

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    var NgAdapterInjector = /** @class */ (function () {
        function
NgAdapterInjector(modInjector) {
            this.modInjector = modInjector;
        }
        // When Angular locate a
        // service in the component injector tree, the not found value is set to
        // 'NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR'. In such a case we should not walk up to the module
        // injector.
        // AngularJS only supports a single tree and should always check the module injector.
        NgAdapterInjector.prototype.get = function (token, notFoundValue) {
            if (notFoundValue ===
                core.NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
                return notFoundValue;
            }

            return this.modInjector.get(token, notFoundValue);
        };

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by
     * an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    var
moduleUid = 0;
    /**
     * @description
     *
     * A helper function for creating an AngularJS module that
     * can bootstrap an Angular module
     * "on-demand" (possibly lazily) when a
     * @link downgradeComponent
downgraded component
   needs to be
   instantiated.
 * *Part of the
 [upgrade/static/api?query=upgrade/static] library for hybrid upgrade apps that
   * support AOT compilation.
 * In
 * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to
 * pay the cost up-front. For example, you can have an AngularJS application that uses Angular for
 * specific routes and only instantiate the Angular modules if/when the user visits one of these
 * routes.
 * The Angular
 * module will be bootstrapped once (when requested for the first time) and the same
 * reference will be used from
 * that point onwards.
 * * `downgradeModule()` requires either an `NgModuleFactory` or a function:
 *   * `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module
 *     using
 *     `platformBrowser`’s
 *     `@link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory()`.
 *   * `Function`: If you pass a function, it is expected to return a promise resolving to an
 *     `NgModuleRef`. The function is
 *     called with an array of extra
 *     `@link StaticProvider Providers`
 *     that are expected to be available from the
 *     returned
 *     `NgModuleRef`’s
 *     `@link Injector Injector`.
 *   * `downgradeModule()` returns the name of the created AngularJS
 *     wrapper module. You can use it
 *   * declare a dependency in your main AngularJS module:
 *     ```
 *     [@link upgrade/static/api?query=upgrade/static]
 *     ```
 * * For more details on how to use
 *   `downgradeModule()` see
 *   * [Upgrading for Performance](guide/upgrade-performance).
 * * @usageNotes
 *   * Apart from `UpgradeModule`, you can use the rest of the
 *     `@link upgrade/static` helpers as
 *     usual to
 *     build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be
 *     available until the downgraded module has been bootstrapped, i.e. by instantiating a
 *     component.
 *   * declare class="\"alert is-important\"">
 *   * Cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application.</br />
 *   * Use one or the other.
 * * `div`
 * * `### Differences with `UpgradeModule`:
 *   * Besides their different API, there are two important internal
 *     differences between
 *     * `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid
 *     applications.
 *   * 1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS
 *     module inside the
 *     * `@link NgZone Angular zone`.
 *   * 2. Unlike `UpgradeModule`,
 *     `downgradeModule()` does not automatically run
 *     ```
 *     $digest()$(https://docs.angularjs.org/api/ng/type/S Scope.Scope#$digest) when changes are detected in
 *     the Angular part of the application.
 *   * What this means is that applications using `UpgradeModule` will
 *     run change detection more frequently in order to ensure that both frameworks are properly noticed about
 *     possible changes.
 *   * This will inevitably result in more change detection runs than necessary.
 * * `div`
 * * `downgradeModule()`, on the other side, does not try to tie the two change detection systems
 *   * tightly, restricting the explicit change detection runs only to cases where it knows it
 *   * necessary (e.g. when the inputs of a downgraded component change). This improves performance,
 *   * especially in change-detection-heavy
 *   * applications, but leaves it up to the developer to manually notify each framework as needed.
 * * For a
more detailed discussion of the differences and their implications, see

* [Upgrading for Performance](guide/upgrade-performance).

* You can manually trigger a change detection run in Angular using

```html
<triggers class="alert is-helpful">

* You can manually trigger a change detection run in Angular using
    * @link NgZone#run
    * ngZone.run(...)

* @link NgZone#run
    * Things to keep in mind, when downgrading multiple modules:

    * Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

    * If you want some injectables to be shared among all downgraded modules, you can provide them as

    * `StaticProvider`s, when creating the `PlatformRef` (e.g. via `platformBrowser` or

    * `platformBrowserDynamic`).

* When using [@link PlatformRef#bootstrapModule

`bootstrapModule()` or `@link PlatformRef#bootstrapModuleFactory

`bootstrapModuleFactory()`] to bootstrap the

* downgraded modules, each one is considered a `\root\` module. As a consequence, a new instance

* will be created for every injectable provided in `\root\` (via

* `@link Injectable#providedIn

`providedIn`)).

* If this is not your intention, you can have a shared module (that will act as the

* `\root\` module) and create all downgraded modules using that module's injector:

* @example upgrade/static/ts/lite-multi-shared/module.ts region="shared-root-module"

* function downgradeModule(moduleFactoryOrBootstrapFn) {

```
function downgradeModule(moduleFactoryOrBootstrapFn) {

    var lazyModuleName = UPGRADE_MODULE_NAME + ".lazy" + ++moduleUid;
    var lazyModuleRefKey = "" + LAZY_MODULE_REF + lazyModuleName;
    var injector;
    // Create an ng1 module to bootstrap.
    module_(lazyModuleName, []
    .constant(UPGRADE_APP_TYPE_KEY, 3 /* Lite */)
    .factory(INJECTOR_KEY, [lazyInjectorKey, identity])
    .factory(lazyInjectorKey, function () {
        if (!injector) {
            throw new Error('Trying to get the Angular injector before bootstrapping the corresponding ' +
                'Angular module.');
        }
        return injector;
    })
    .factory(LAZY_MODULE_REF, 
        [lazyModuleRefKey, identity])
    .factory(lazyModuleRefKey, function ($injector) {
        setTempInjectorRef($injector);
        var result = {
            injector: new NgAdapterInjector(ref.injector);
            injector.get($INJECTOR);
            return injector;
        }
    })
    .config([
        $INJECTOR,
        $PROVIDE,
        function ($injector, $provide) {
            $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);
        }
    ])
    return platformBrowser(platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
}
```

* function (extraProviders) {

```
function (extraProviders) {

    return platformBrowser(platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
```

* return platformBrowser(platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);

```
throw new Error("Only support single directive definition for: \"" + name + ";\n
var directive = directives[0];\n// AngularJS will transform `link: xyz` to `compile: (\$r => xyz`). So we can only tell there was a\n// user-defined ‘compile’ if there is no ‘link’. In other cases, we will just ignore ‘compile’.\nif (directive.compile &\& !directive.link) notSupported(name, 'compile');\nif (directive.replace) notSupported(name, 'replace');\nif (directive.terminal) notSupported(name, 'terminal');\nreturn directive;\n};\nUpgradeHelper.getTemplate = function ($injector, directive, fetchRemoteTemplate, Selement) {\nif (fetchRemoteTemplate === void 0) { fetchRemoteTemplate = false;\n} if (directive.template !== undefined) {\n    return getOrCall(directive.template, Selement);\n}\nelse if (directive templateUrl) {\n    var $templateCache_1 = $injector.get($TEMPLATE_CACHE);\n    var url_1 = getOrCall(directive templateUrl, Selement);\n    var template = StemplateCache_1.get(url_1);\n    if (template !== undefined) {\n        return template;\n    } else if (!fetchRemoteTemplate) {\n        throw new Error('loading directive templates asynchronously is not supported');\n    } return new Promise(function (resolve, reject) {\n        var $httpBackend = $injector.get($HTTP_BACKEND);\n        $httpBackend('GET', url_1, null, function (status, response) {\n            if (status === 200) {
                resolve($templateCache_1.put(url_1, response));
            } else {
                reject("GET component template from \"" + url_1 + ";\n
UpgradeHelper.prototype.buildController = function (controllerType, $scope) {\n    // TODO: Document that we do not pre-assign bindings on the controller instance.\n    // Quoted properties below so that this code can be optimized with Closure Compiler.\n    var locals = { 'scope': $scope, 'element': this.$element };
    var controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);\n    this.$element.data(controllerKey(this.directive.name), controller);
    return controller;\n};\nUpgradeHelper.prototype.compileTemplate = function (template) {\n    if (template === undefined) {
        template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);
    }
    return this.compileHtml(template);
};\nUpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
        controllerInstance.$onDestroy();
    }
    $scope.$destroy();
    // Clean the jQuery/jqLite data on the component+child elements.\n    // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element\n    // https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613f9d9/src/manipulation.js#L223
    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d864d688c82/src/jqLite.js#L306-L312
    // `cleanData` will invoke the AngularJS `Sdestroy` DOM event.\n    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d864d688c82/src/jqLite.js#L306-L312
    \n    // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if\n    // `$template` is empty. Since the transcluded content comes from\n    // Angular, not AngularJS,\n    // there will be no transclusion scope here.\n    // Provide a dummy\n    // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing new Error with\n    // `$template` is empty. Since the transcluded content comes from\n    // Angular, not AngularJS,\n    \n    UpgradeHelper.prototype.prepareTransclusion = function () {\n        var _this = this;
        var transclude = this.directive.transclude;\n        var contentChildNodes = this.extractChildNodes();\n        var attachChildrenFn = function (scope, cloneAttachFn) {\n            // Since AngularJS v1.5.8, `cloneAttachFn` will try\n            // to destroy the transclusion scope if\n            // `$template` is empty. Since the transcluded content comes from\n            // Angular, not AngularJS,\n            // there will be no transclusion scope here.\n            // Provide a dummy\n            // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing new Error with\n            // `$template` is empty. Since the transcluded content comes from\n            // Angular, not AngularJS,\n            \n            UpgradeHelper.prototype.prepareTransclusion = function () {\n                var _this = this;\n                var transclude = this.directive.transclude;\n                var contentChildNodes = this.extractChildNodes();\n                var attachChildrenFn = function (scope, cloneAttachFn) {\n                    // Since AngularJS v1.5.8, `cloneAttachFn` will try\n                    // to destroy the transclusion scope if\n                    // `$template` is empty. Since the transcluded content comes from\n                    // Angular, not AngularJS,\n                    // there will be no transclusion scope here.\n                    // Provide a dummy\n                    // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing new Error with\n                    // `$template` is empty. Since the transcluded content comes from\n                    // Angular, not AngularJS,\n                    \nOpen Source Used In MSX SD-WAN Service Pack 4.0.0 18623
var ctrlKey = controllerKey(name_1);

var elem = startOnParent ? this.$element.parent() : elem.$element;

var value = searchParents ? elem.inheritedData(ctrlKey) : elem.data(ctrlKey);

if (!value && !isOptional) {
    throw new Error("Unable to find required '" + require + "' in upgraded
directive '" + this.name + "+" + require + "+" + require);
}

return value;

} else {
    throw new Error("Unrecognized 'require' syntax on upgraded directive '" + this.name + "': " + require);
}

};

function getOrCall(property) {
    var args = arguments;
    for (var _i = 1; _i < arguments.length; _i++) {
        args[_i - 1] = arguments[_i];
    }
    return isFunction(property) ? property.apply(void 0, __spread(args)) : property;

} // NOTE: Only works for `typeof T !== 'object'`.

function isMap(value) {
    return value && !Array.isArray(value) && typeof value === 'object';
}

function notSupported(name, feature) {
    throw new Error("Upgraded directive '" + name + "' contains
unsupported feature: '" + feature + "'.");
}

/**
 * @license
 * Copyright Google Inc. All Rights
 * Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

var NOT_SUPPORTED = 'NOT_SUPPORTED';

var INITIAL_VALUES$1 = {
    __UNINITIALIZED__: true
};

var Bindings = /** @class */ (function () {
    function Bindings() {
        this.twoWayBoundProperties = [];
        this.twoWayBoundLastValues = [];
        this.expressionBoundProperties = [];
        this.propertyToOutputMap = {};
    }
    return Bindings;
}());

/**
 * @description
 *
 * A helper class that allows an AngularJS component to be
 * used from Angular.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid
 * upgrade apps that support AOT compilation.*
 *
 * This helper class should be used as a base class for
 * creating Angular directives
 * that need to be upgraded.
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an AngularJS component called
 * `ng1Hero` that needs
 * to be made available in Angular templates.
 *
 * @example
 *
 * We must create a new `UpgradeComponent` instance.
 * This helper class should be used as a base class for
 * creating Angular directives
 * that need to be upgraded.
 *
 * As a base class for
 * creating Angular directives
 * that need to be upgraded.
 *
 * @example
 *
 * Let's assume that you have an AngularJS component called
 * `ng1Hero` that needs
 * to be made available in Angular templates.
 *
 * * * specify the directive's selector (`ng1-hero`)
 * * * specify all inputs and outputs that the AngularJS component expects
 * * * derive from
 * UpgradeComponent(name, elementRef, injector) {LN
 * * * the AngularJS name of the
 * * * the 'ElementRef' and 'Injector' for the component wrapper
 * * * @publicApi
 *
 * var UpgradeComponent = /** @class */ (function () {
 *    function UpgradeComponent(name, elementRef, injector) {
 *        this.name = name;
 *        this.elementRef = elementRef;
 *        this.injector = injector;
 *
 *    }
 *    return UpgradeComponent;
 * }

 // we will put the new component scope onto the new injector for each component
 // QUESTION 1: Should we create an isolated scope if the scope is only true?
 // QUESTION 2: Should we make the scope accessible through `QualifiedName()`/isolateScope()?

 // We ask for the AngularJS scope from the Angular injector, since

 // we will put the new component scope onto the new injector for each component
 var $parentScope = injector.get($SCOPE);

 // QUESTION 1: Should we create an isolated scope if the scope is only true?
 // QUESTION 2: Should we make the scope accessible through `QualifiedName()`/isolateScope()?

 var attachChildNodes = this.helper.prepareTransclusion();

 var linkFn =
this.helper.compileTemplate(); // Instantiate controller
    var controllerType = this.directive.controller;
    var bindToController = this.directive.bindToController;
    if (controllerType) {
        this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
    } else if (bindToController) {
        throw new Error("Upgraded directive \" + this.directive.name + \" specifies \"bindToController\" but no controller.\"");
    } // Set up outputs
    this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
    this.bindOutputs(); // Require other controllers
    var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
    // Hook: $onChanges
    if (this.pendingChanges) {
        this.forwardChanges(this.pendingChanges);
        this.pendingChanges = null;
    } // Hook: $onInit
    if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
        this.controllerInstance.$onInit();
    }
    // Hook: $doCheck
    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
        var callDoCheck = function () { return _this.controllerInstance.$doCheck(); };
        UpgradeComponent.prototype.ngDoCheck = function (changes) {
            var _this = this;
            var twoWayBoundProperties = this.bindings.twoWayBoundProperties;
            var twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
            var propertyToOutputMap = this.bindings.propertyToOutputMap;
            twoWayBoundProperties.forEach(function (propName, idx) {
                var newValue = _this.bindingDestination[propName];
                var oldValue = twoWayBoundLastValues[idx];
                if (core.looseIdentical(newValue, oldValue)) {
                    var outputName = propertyToOutputMap[propName];
                    var eventEmitter = _this[outputName];
                    eventEmitter.emit(newValue);
                    twoWayBoundLastValues[idx] = newValue;
                }
            });
        }
    }
    UpgradeComponent.prototype.ngOnDestroy = function () {
        if (isFunction(this.unregisterDoCheckWatcher)) {
            this.unregisterDoCheckWatcher();
        }
        this.helper.onDestroy(this.$componentScope, this.controllerInstance);
    };
    UpgradeComponent.prototype.initializeBindings = function (directive) {
        var btcIsObject = typeof directive.bindToController === 'object';
        if (btcIsObject && Object.keys(directive.scope).length) {
            throw new Error("Binding definitions on scope and controller at the same time is not supported.\"");
        } var context = btcIsObject ? directive.bindToController : directive.scope;
        var bindings = new Bindings();
        if (typeof context == 'object') {
            Object.keys(context).forEach(function (propName) {
                var definition = context[propName];
                switch (bindingType) {
                    case '@':
                    case '<':
                        // We don't need a special handling of this. They will be handled as inputs
                        // on the upgraded component facade and the change propagation will be handled by
                        break;
                        case '<':
                            bindings.propertyToOutputMap[propName] = propName + 'Change';
                            break;
                        case '='
                            break;
                };
            });
        }
        UpgradeComponent.prototype.ngOnDestroy = function () {
            var _this = this;
            var btcIsObject = directive.bindToController instanceof Object;
            if (btcIsObject) {
                throw new Error("Binding definitions on scope and controller at the same time is not supported.\"");
            } var context = btcIsObject ? directive.bindToController : directive.scope;
            var bindings = new Bindings();
            if (typeof context == 'object') {
                Object.keys(context).forEach(function (propName) {
                    var definition = context[propName];
                    var bindingType = definition.charAt(0);
                    switch (bindingType) {
                        case '@':
                        case '<':
                            // We don't need a special handling of this. They will be handled as inputs
                            // on the upgraded component facade and the change propagation will be handled by
                            break;
                        case '='
                            break;
                            case '<':
                                bindings.propertyToOutputMap[propName] = propName + 'Change';
                                break;
                            case '='
                                break;
                        case ')'
                            break;
                    };
                });
            }
        };
    };
}
that can be found in the LICENSE file at https://angular.io/license

* "An `NgModule`, which you import to provide AngularJS core services," and has an instance method used to bootstrap the hybrid upgrade application.

* "Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation"*

* "The `upgrade/static` package contains helpers that allow AngularJS and Angular components to be used together inside a hybrid upgrade application, which supports AOT compilation." *Specifically, the classes and functions in the `upgrade/static` module allow the following:

1. Creation of an Angular directive that wraps and exposes an AngularJS component so that it can be used in an Angular template. See `UpgradeComponent`.
2. Creation of an AngularJS directive that wraps and exposes an Angular component so that it can be used in a hybrid application. See `downgradeComponent`.
3. Creation of an Angular root injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context. See `UpgradeComponent`.
4. Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an Angular context. See `downgradeInjectable`.
5. Bootstrapping of a hybrid Angular application which contains both of the frameworks coexisting in a single application. See `UpgradeModule`.
6. When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level. There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiates the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others. AngularJS directives always execute inside the AngularJS framework codebase regardless of whether they are instantiated. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.

An AngularJS component can be "upgraded" to an Angular component.

This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.

An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.
Whenever an "upgraded"/"downgraded" component is instantiated the host element is owned by
the framework doing the instantiation. The other framework then instantiates and owns the
view for that component. 1. This implies that the component bindings will always follow the semantics of the instantiation framework. 2. The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use kebab-case, while AngularJS templates must use camelCase.

3. However the template binding syntax will always use the Angular style, e.g. square brackets ('[...]') for property binding. 8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. 9. The new application is running in an Angular zone, and therefore it no longer needs calls to 'Supplo().

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. Importing this `NgModule` will add providers for the core AngularJS services.

### Examples

Import the `UpgradeModule` into your top level `NgModule`.

```typescript
import {UpgradeModule} from '@angular/upgrade'

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {
  constructor(private upgradeModule: UpgradeModule) {
    console.log(upgradeModule);  // UpgradeModule object
  }
}
```

### Upgrading an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the recipe:

1. Let's say you have an AngularJS service:

```typescript
function myService($scope, $http, $timeout) {
  // Service implementation...
}
```

2. Then define an Angular provider to be included in your `NgModule` `providers` property:

```typescript
providers: [myService],
```

3. Then you can use the "upgraded" AngularJS service by injecting it into an Angular component:

```typescript
@Injector() injector: Injector,

myService(service: myService) {
  service.doSomething();
}
```

### Upgrading an AngularJS service

1. Import the `UpgradeModule` into your top level `NgModule`.

```typescript
import {UpgradeModule} from '@angular/upgrade'

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {
  constructor(private upgradeModule: UpgradeModule) {
    console.log(upgradeModule);  // UpgradeModule object
  }
}
```

2. Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level AngularJS module.

```typescript
bootstrap: function () {
  return upgradeModule.bootstrap('myApp', [
    myModule
  ], { ngZone: ngZone });
}
```

3. Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`.

```typescript
bootstrap: function () {
  return module_(['app.module'], []);
}
```

### Upgrading an AngularJS service

1. Import the `UpgradeModule` into your top level `NgModule`.

```typescript
import {UpgradeModule} from '@angular/upgrade'

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {
  constructor(private upgradeModule: UpgradeModule) {
    console.log(upgradeModule);  // UpgradeModule object
  }
}
```

2. Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level AngularJS module.

```typescript
bootstrap: function () {
  return upgradeModule.bootstrap('myApp', [
    myModule
  ], { ngZone: ngZone });
}
```

3. Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`.

```typescript
bootstrap: function () {
  return module_(['app.module'], []);
}
```
originalWhenStable.call(testabilityDelegate, function () {
    var ng2Testability = injector.get(core.Testability);
    if (ng2Testability.isStable()) {
        callback();
    } else {
        ng2Testability.whenStable(newWhenStable.bind(testabilityDelegate, callback));
    }
}

return testabilityDelegate;

if ($injector.has($INTERVAL)) {
  $provide.decorator($INTERVAL, function (intervalDelegate) {
    // Wrap the $interval service so that setInterval is called outside NgZone,
    // but the callback is still invoked within it. This is so that $interval
    // won't block stability, which preserves the behavior from AngularJS.

    var wrappedInterval = function (fn, delay, count, invokeApply) {
      var pass = [];
      for (var _i = 4; _i < arguments.length; _i++) {
        pass[_i - 4] = arguments[_i];
      }
      return intervalDelegate.apply(void 0, __spread([function () {
        var args = [];
        for (var _i = 0; _i < arguments.length; _i++) {
          args[_i] = arguments[_i];
        }
        // Run callback in the next VM turn - $interval calls in NgZone will
        // cause a '$digest already in progress' error if it's in the
        // same vm turn.
        setTimeout(function () { _this.ngZone.run(function () {
          return this.ngZone.runOutsideAngular(function () {
            return _this.ngZone.runOutsideAngular(function () {
              return this.ngZone.run(function () {
                return fn.apply(void 0, __spread(args));
              });
            });
          });
        }), delay, count, invokeApply, pass);
      });
    });
    return wrappedInterval;
  });
}

$INJECTOR.$provide.decorator($INTERVAL, function ($injector) {
  // Wrap the $interval service so that setInterval is called outside NgZone,
  // but the callback is still invoked within it. This is so that $interval
  // won't block stability, which preserves the behavior from AngularJS.
  return wrappedInterval;
});

function ($injection) {
    // Initialize the ng1 $injector provider
    _this.injectionRef = get($INJECTION);

    // Make sure resumeBootstrap() only exists if the current bootstrap is deferred
    // windowAngular.resumeBootstrap = undefined;

    // Bootstrap the AngularJS application inside our zone
    this.ngZone.run(function () {
      bootstrap(element$1, [upgradeModule.name], config);
    });

    // Patch resumeBootstrap() to run inside the ngZone
    if (windowAngular.resumeBootstrap) {
      var originalResumeBootstrap_1 = windowAngular.resumeBootstrap;
      windowAngular.resumeBootstrap = function () {
        var args = arguments;
        windowAngular.resumeBootstrap = originalResumeBootstrap_1;
        return ngZone_1.run(function () {
          return windowAngular.resumeBootstrap.apply(_this, args);
        });
      };
    }

    UpgradeModule = __decorate([core.NgModule({ providers: [angular1Providers] }),
      __metadata("design:paramtypes", [core.Injector, core.NgZone])], UpgradeModule);

    return UpgradeModule;
});

/***/

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Object

Suntouched: boolean
$touched: boolean
$pristine: boolean
$dirty: boolean
$valid: boolean
$invalid: boolean
$name: string

function noNg(): never
{
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) => IInjectorService,
  module: (prefix: string, dependencies?: string[]) => IModule,
  element: (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
  cleanData: (nodes: Node[] | NodeList) => void;
  injector: (modules: Array<string | Injectable>, strictDi?: boolean) => InjectorService;
  version: number;
  resumeBootstrap: () => void;
  getTestability: (e: Element) => ITestabilityService;
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) => angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug (see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix, dependencies?) => angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes => angular.element.cleanData(nodes);

export const injector: typeof angular.injector = (modules: Array<string | Injectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const REQUIRE_INJECTOR = '$$angularRequireInjector';
export const REQUIRE_NG_MODEL = '$$angularRequireNgModel';
export const REQUIRE_UPGRADE_APP_TYPE_KEY = '$$angularRequireUpgradeAppType';
export const RESOLVE烸 = '$$resolve';
export const TEMPLATE_CACHE = '$$templateCache';
export const TEMPLATE_REQUEST = '$$templateRequest';

export const $injector: angular.IInjectorService = null;

let injector: Injector = null;

export function $injectorFactory() {
  return $injector;
}

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}]})
export class AngularTestingModule {
  constructor(i:

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A helper function to use when unit testing Angular services that depend upon upgraded AngularJS services.

This function returns an 'NgModule' decorated class that is configured to wire up the AngularJS and AngularJS injectors without the need to actually bootstrap a hybrid application. Use this function and AngularJS services.

AngularJS injectors and AngularJS applications.

This makes it simpler and faster to unit test services.

Use the returned class as an 'import' when configuring the 'TestBed'.

In the following code snippet, we are configuring the TestBed with two imports.

The 'Ng2AppModule' is the Angular part of our hybrid application and the 'ng1AppModule' is the AngularJS part.

Once this is done we can get hold of services via the Angular 'Injector' as normal.

Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS 'Sinjector'.

In the following code snippet, 'HeroesService' is an Angular service that depends upon an AngularJS service, 'titleCase'.

Here is the example application and its unit tests that use createAngularTestingModule() and createAngularJSTestingModule().

See 'UpgradeModule' or downgradeModule for more information.

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Do not use createAngularTestingModule() in the same spec as createAngularJSTestingModule().

The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call 'SrootScope.$apply', as necessary, to trigger AngularJS handlers of async events from Angular.

The help is for testing services not Components.

For Component testing you must still bootstrap a hybrid app. See 'UpgradeModule' or downgradeModule for more information.

In the following code snippet, we are configuring the $injector with two modules:

The AngularJS 'Sinjector' as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root 'Injector'.

Using the following code snippet, 'heroesService' is a downgraded Angular service that we are accessing from AngularJS.

A helper function to use when unit testing AngularJS services that depend upon downgraded AngularJS services.

This function returns an AngularJS module that is configured to wire up the AngularJS and AngularJS injectors without the need to actually bootstrap a hybrid application. This makes it simpler and faster to unit test services.

Use the returned AngularJS module in a call to

['angular.mocks.module'](https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to include this module in the unit test injector.

In the following code snippet, we are configuring the 'Sinjector' with two modules:

The AngularJS 'ng1AppModule', which is the AngularJS part of our hybrid application and the

'Ng2AppModule', which is the Angular part.

Once this is done we can get hold of services via the AngularJS 'Sinjector' as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root 'Injector'.

In the following code snippet, 'heroesService' is a downgraded Angular service that we are accessing from AngularJS.

A helper function to use when unit testing AngularJS services that depend upon downgraded AngularJS services.

This function returns an AngularJS module that is configured to wire up the AngularJS and AngularJS injectors without the need to actually bootstrap a hybrid application. This makes it simpler and faster to unit test services.

Use the returned AngularJS module in a call to

['angular.mocks.module'](https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to include this module in the unit test injector.

In the following code snippet, we are configuring the 'Sinjector' with two modules:

The AngularJS 'ng1AppModule', which is the AngularJS part of our hybrid application and the

'Ng2AppModule', which is the Angular part.

Once this is done we can get hold of services via the AngularJS 'Sinjector' as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root 'Injector'.

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Once this is done we can get hold of services via the AngularJS 'Sinjector' as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root 'Injector'.

In the following code snippet, 'heroesService' is a downgraded Angular service that we are accessing from AngularJS.

A helper function to use when unit testing AngularJS services that depend upon downgraded AngularJS services.

This function returns an AngularJS module that is configured to wire up the AngularJS and AngularJS injectors without the need to actually bootstrap a hybrid application. This makes it simpler and faster to unit test services.

Use the returned AngularJS module in a call to

['angular.mocks.module'](https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to include this module in the unit test injector.

In the following code snippet, we are configuring the 'Sinjector' with two modules:
you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

* The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `rootScope.Sapply`, as necessary, to trigger AngularJS handlers of async events from Angular.

* The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularTestingModuleModule` to angular modules inside the configuration.

```typescript
function createAngularJSTestingModule(angularModules: any[]): string {
  return angular.modules
      .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory(INJECTOR_KEY, $injector: ng.IInjectorService => {
      TestBed.configureTestingModule({
        imports: angularModules,
        providers: [{provide: $INJECTOR, useValue: $injector}]
      });
      return TestBed.inject(INJECTOR);
    });

function createAngularTestingModule(angularModules: any[]): string {
  return angular.modules
      .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory(INJECTOR_KEY, $injector: ng.IInjectorService => {
      TestBed.configureTestingModule({
        imports: angularModules,
        providers: [{provide: $INJECTOR, useValue: $injector}]
      });
      return TestBed.inject(INJECTOR);
    });
```

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```typescript
export * from './index';
```

```typescript
export * from './angular1';
```

```typescript
export * from './constants';
```

```typescript
export * from './util';
```

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```typescript
export * from './public_api';
```
No license file was found, but licenses were detected in source scan.

```javascript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at
 * https://angular.io/license
 */

/**
 * @module
 * @description
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

```

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src
zip/fesm5/static/testing.js.map
var __extends = (this && this.__extends) || (function () {
    var extendStatics = function(d, b) {
        extendStatics = Object.setPrototypeOf
            || { __proto__: null } instanceof Array && function (d, b) {
                d.__proto__ = b;
            }
        extendStatics(d, b); 
        function __() { this.constructor = d; }
        d.prototype = b === null
            ? null
            : (typeof Object.getPrototypeOf === "function" ?
                Object.getPrototypeOf(b)
            : b);
    return extendStatics;
});

export function __extends(d, b) {
    extendStatics(d, b);
    function __() { this.constructor = d; }
    d.prototype = b === null
        ? null
        : (typeof Object.getPrototypeOf === "function" ?
            Object.getPrototypeOf(b)
        : b);
    return extendStatics(d, b);
}

export function __awaiter(thisArg, _arguments, P, generator) {
    return new (P || (P = Promise))(function (resolve, reject) {
        function step(result) {
            if (resolve(result.value) || result.done) return resolve(result.value);
            if (result.value instanceof __await) return __awaiter(thisArg, _arguments.concat([result.value]), P, generator);
            result.done = true;
            resolve(result.value);
        }
        return result = { value: generator.apply(thisArg, _arguments || []), done: false },
            step(result), result, _next, _done, return _next;
    });
}

export function __generator(thisArg, body) {
    var _ = { label: 0, sent: function() {
        if (t[0] & 1) throw t[1];
        return t[1];
    },
        try:
            try {
                var y, t, g, s, returnSymbol = function() {
                    return this;
                },
                gSymbol = function(value) {
                    return this;
                },
                thisArg = this;
            } catch (e) {
                if (t[0] & 2) throw t[1]();
            } finally {
                t = t[0] & 3 && t[4] ? t[3] : t[2] || (t = t[2] || t[4] || t[1] || t[0] & 3 && [0, 0, 5, 0, 0, 0, 3, 0, 0, 0, 0].pop()).at(0);
            }
            function __rest(s, e) {
                var t = {}; 
                if (e != null && typeof Object.getOwnPropertySymbols === "function")
                    for (var i = 0, p in s; i < p.length; i++)
                        t[p] = s[p];
                if (s != null && s.__proto__.constructor.FromObjectPropertySymbols)
                    return t;
                if (Object.prototype.propertyIsEnumerable.call(s, p)
                    && e.indexOf(p) < 0)
                    t[p] = s[p];
            }
            var _ = { label: 0, sent: function() {
                if (t[0] & 1) throw t[1];
                return t[1];
            },
                try:
                    try {
                        var y, t, g, s, returnSymbol = function() {
                            return this;
                        },
                        gSymbol = function(value) {
                            return this;
                        },
                        thisArg = this;
                    } catch (e) {
                        if (t[0] & 2) throw t[1]();
                    } finally {
                        t = t[0] & 3 && t[4] ? t[3] : t[2] || (t = t[2] || t[4] || t[1] || t[0] & 3 && [0, 0, 5, 0, 0, 0, 3, 0, 0, 0, 0].pop()).at(0);
                    }
            func...
ILinkFn};

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
}

transcludeControllers?: {
  [key: string]: any;
}

futureParentElement?: Node;

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;

  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event: any, ...args: any[]) => void): Function;
  $destroy(): any;
  $apply(exp: Ng1Expression): any;
  $digest(): any;

  $scope: boolean;
  $bindToControllerAs?: boolean;
  $link: IDirectiveLinkFn[IDirectivePrePost; $name?: string; $priority?: number; $replace?: boolean; $require?: DirectiveRequireProperty; $restrict?: string; $scope: boolean; $key: string; $string]: any;

  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;

  [key: string]: any;
}

export interface IScope extends IRootScopeService {}

export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|

  template?: string|Function;
  templateUrl?: string|Function;
  templateNamespace?: string;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
  require?: DirectiveRequireProperty = SingleOrListOrMap<

  port: boolean|{
    [key: string]: string;
}

  restrict: string;

  scope?: boolean|{
    [key: string]: string;
}

export type DirectiveRequireProperty = SingleOrListOrMap<string>;
export type DirectiveTranscludeProperty = boolean |

export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes,
   transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IDirectivePrePost {
  pre?: IDirectiveLinkFn;
  post?: IDirectiveLinkFn;
}

export interface IDirectiveLinkFn {
  (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, any: IDirectiveTranscludeProperty; void: IDirectiveTranscludeProperty; string: IDirectiveTranscludeProperty = boolean |

  IComponent; IDirectiveTranscludeProperty; any: IDirectiveTranscludeProperty; void; IDirectiveTranscludeProperty; [scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, any: IDirectiveTranscludeProperty; void: IDirectiveTranscludeProperty; string: IDirectiveTranscludeProperty = boolean |

  IComponent; IDirectiveTranscludeProperty; any: IDirectiveTranscludeProperty; void; IDirectiveTranscludeProperty; [scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, any: IDirectiveTranscludeProperty; void: IDirectiveTranscludeProperty; string: IDirectiveTranscludeProperty = boolean |

  IComponent; IDirectiveTranscludeProperty; any: IDirectiveTranscludeProperty; void; IDirectiveTranscludeProperty; [scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, any: IDirectiveTranscludeProperty; void: IDirectiveTranscludeProperty; string: IDirectiveTranscludeProperty = boolean |

  IComponent; IDirectiveTranscludeProperty; any: IDirectiveTranscludeProperty; void; IDirectiveTranscludeProperty; [scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, any: IDirectiveTranscludeProperty; void: IDirectiveTranscludeProperty; string: IDirectiveTranscludeProperty = boolean |

  IComponent; IDirectiveTranscludeProperty; any: IDirectiveTranscludeProperty; void; IDirectiveTranscludeProperty; [scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, any: IDirectiveTranscludeProperty; void: IDirectiveTranscludeProperty; string: IDirectiveTranscludeProperty = boolean |
export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

/**
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 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * A `PropertyBinding` represents a mapping between a property name and an attribute name.
 * It is parsed from a string of the form `"prop:attr"` or simply `"propAndAttr"` where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove `!`.!
  bracketAttr!: string; // TODO(issue/24571): remove `!`.
  parenAttr!: string; // TODO(issue/24571): remove `!`.
  bracketParenAttr!: string; // TODO(issue/24571): remove `!`.
  onAttr!: string; // TODO(issue/24571): remove `!`.
  bindAttr!: string; // TODO(issue/24571): remove `!`.
  bindonAttr!: string; // TODO(issue/24571): remove `!`.

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `(${this.attr})`;
    this.bracketParenAttr = `\[(${this.attr})\]`;
    this.onAttr = `on${this.attr.charAt(0).toUpperCase() + this.attr.substr(1)}`;
    this.bindAttr = `bind${this.attr.charAt(0).toUpperCase() + this.attr.substr(1)}`;
    this.bindonAttr = `bindon${this.attr.charAt(0).toUpperCase() + this.attr.substr(1)}`;
  }
}

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):\-_/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-_]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('\n')
      [0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
      $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
      $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

// Check for common errors.
switch ($injector.get(UpgradeAppType).Dynamic) {
  case UpgradeAppType.Dynamic:
    if ($injector.get(UpgradeAppType).Dynamic) {
      throw new Error('You should not specify a value for the Dynamic type when downgrading_approved modules.');
    }
    break;
  case UpgradeAppType.Static:
    if ($injector.get(UpgradeAppType).Static) {
      throw new Error('Error while trying to set the upgraded module to the Static type.');
    }
    break;
  case UpgradeAppType.None:
    if ($injector.get(UpgradeAppType).None) {
      throw new Error('Error while trying to set the upgraded module to the None type.');
    }
    break;
  default:
    throw new Error('Error while trying to set the upgraded module to any other type.');
}
/**
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 *
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 * found in the LICENSE file at https://angular.io/license
 */

import {ApplicationRef, ChangeDetectorRef,
ComponentFactory, ComponentRef, EventEmitter,
Component, OnChanges, SimpleChange, SimpleChanges,
StaticProvider, Testability, TestabilityRegistry,
Type} from '@angular/core';

import {IAttributes,
IAugmentedJQuery, ICompileService, IInjectorService,
INgModelController, IParseService, IScope} from
'./angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges
  = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private
  componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef !: ComponentRef<any>;

  private component: any;
  // TODO(issue/24571): remove '!'.
  private changeDetector !: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector !: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery, private attrs: IAttributes,
    private scope: IScope, private ngModel: INgModelController,
    private parentInjector: Injector, private $injector: IInjectorService,
    private $compile: ICompileService, private $parse: IParseService,
    private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append(clone);
        });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][])
  {
    const
    providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create(
        {providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});

    this.$compile(projectableNodes).
    this.element.empty();

    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes)).forEach(linkFn => {
      linkFn(this.scope, (clone: Node[]) => {
        compiledProjectableNodes.push(clone);
      });
    });

    return compiledProjectableNodes;
  }

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }

  export interface LazyModuleRef {
    injector?: Injector;
    promise?: Promise<Injector>;
  }

  export

  const enum UpgradeAppType {
    // App NOT using '@angular/upgrade'. (This should never happen in an
    'ngUpgrade' app.)
    None,

    // App using '@angular/upgrade/static' with 'UpgradeModule'.
    Static,

    // App using '@angular/upgrade/static' with 'downgradeModule' (a.k.a. 'ngUpgrade'-lite).
    Lite,

    // App using '@angular/upgrade/static' with 'UpgradeModule'.
    Dynamic,

    // App using the deprecated '@angular/upgrade' APIs (a.k.a. dynamic
    'ngUpgrade').
  }

  /**
   * @return
   * Whether the passed-in component implements the subset of the
   *     ControlValueAccessor interface needed for AngularJS `ng-model`.
   *     It can be `true` or `false`.
   */
  function supportsNgModel(component: any) {
    return typeof
    component.writeValue === 'function' &&
    typeof component.registerOnChange === 'function';
  }

  /**
   * Glue the AngularJS `NgModelController` (if it exists) to the component (if it implements the needed subset of
   * the `ControlValueAccessor` interface).
   */
  function hookupNgModel(ngModel: INgModelController,
    component: any)
  {
    if (ngModel && supportsNgModel(component)) {
      ngModel.$render = () => {
        component.writeValue(ngModel.$viewValue);
      };

      component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
      if (typeof
        component.registerOnTouched === 'function') {
        component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
      }
    }
  }

  /**
   * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
   */
  function strictEquals(val1: any, val2: any): boolean {
    return val1 === val2 || (val1 !== val1 && val2 !== val2);
  }

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const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry)

      .registerApplication(this.componentRef.location.nativeElement, testability);
    }

    hookupNgModel(this.ngModel, this.component);
    setupInputs(null, true);

    const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry)
        .registerApplication(this.componentRef.location.nativeElement, testability);
    }

    let hookups = [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr = string(null, null);
      if (attrs.hasOwnProperty(input.attr)) {
        expr = attrs[input.attr];
      } else if (attrs.hasOwnProperty(input.bindAttr)) {
        expr = attrs[input.bindAttr];
      } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr = attrs[input.bracketAttr];
      } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        expr = attrs[input.bindonAttr];
      } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
        expr = attrs[input.bracketParenAttr];
      }
      if (expr != null) {
        const setupFn =
          (expr: any, prevValue: any) => this.updateInput(expr, prevValue, currValue);
        this.componentScope.$watch(expr, setupFn);
      }
    }

    this.viewChangeDetector.markForCheck();
  }

  subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new
  }

  private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new
Error('Expression $\{expr\}' is not assignable!')
  
  const isAssignment = (v: any) => setter
  
  if (isAssignment) {
    this.componentScope.$subscribe((v: any) => getter(this.scope, { '$event': v }));
  } else {
    this.throw new Error('Missing emitter $\{output.prop\}' on component
  
  '{getTypeName(this.componentFactory.componentType)}'!');

  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter
                             : (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new
      Error('Missing emitter $\{output.prop\}' on component
  
  'ngContentSelectors = this.componentFactory.ngContentSelectors;
  
  return
groupNodesBySelector(ngContentSelectors, this.element.contents !)();

  ngContentIndices = 
    this.ngContentIndices.push(node);
import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';
import {IAnnotatedFunction, IAttributes, IAugmented JQuery, ICompileService, IDirective, INgInjectorService, INgModelController, IParseService, IScope} from 'angular1';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*

 * This helper function returns a factory function to be used for registering an AngularJS wrapper directive for an Angular component.

 * A helper function that allows an Angular component to be used from AngularJS.

 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

 * We must create an AngularJS directive that wraps the `ng2Heroes` component.

 * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).

 * @param info contains information about the Component that is being downgraded:
 * - `component: Type<any>`: The type of the Component that will be downgraded.
 * - `downgradedModule?: string`: The name of the downgraded module (if any) that the component "belongs to", as returned by a call to `downgradeModule()`.
 * - `propagateDigest?: boolean`: Whether to perform `ChangeDetectorRef#detectChanges` on every component on every `$digest`.

 * @returns a factory function that can be used to register the component in an AngularJS module.

 * @publicApi
 */
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
  const directiveFactory: IAnnotatedFunction = function($compile, $injector, $parse) {
    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    const wrapCallback: <T>(cb: () => T) => typeof cb = (!isNgUpgradeLite ? cb => cb : () =>
      NgZone.isInAngularZone() ? cb() : ngZone.run(cb));
    let ngZone;

    // We might have to compile the contents asynchronously, because this might have been triggered by `UpgradeNg1ComponentAdapterBuilder`,
before the Angular templates have
  // been compiled.
  //
  const ngModel: INgModelController = required[1];
  const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
  const moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
  let ranAsync = false;

  if (!parentInjector || hasMultipleDowngradedModules) {
    const downgradedModule = info.downgradedModule;
    const lazyModuleRefKey = `(${LAZY_MODULE_REF})${downgradedModule}`;
    const attemptedAction = `instantiating component '${getTypeName(info.component)}'`;

    validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);

    const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
    moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
  }

  // Notes:
  //
  // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
  // the same instance, but that is irrelevant); 
  // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
  //   be on the same tree as the `NgModule` that declares this downgraded component; 
  // - `finalParentInjector` is used for all other injection purposes.

  const finalParentInjector = parentInjector || moduleInjector; 
  // There are basically three cases:
  // - If there is no parent component (thus no
  //   `parentInjector`), we bootstrap the downgraded
  //   `NgModule` and use its injector as both
  //   `finalModuleInjector` and `finalParentInjector`.
  // - If there is a parent component (and thus a
  //   `parentInjector`) and we are sure that it
  //   belongs to the same `NgModule` as this downgraded component
  // (e.g. because there is only one downgraded module, we use
  // that `parentInjector` as both
  //   `finalModuleInjector` and `finalParentInjector`.
  // - If there is a parent component, but it may belong
  //   to a different `NgModule`, then we
  //   use the `parentInjector` as `finalParentInjector` and this downgraded
  // component's
  //   `NgModule` as `finalModuleInjector`.

  // If there is a
  // parent component use its injector as parent injector.
  // If this is a "top-level" Angular component, use the
  // module injector.
  const finalModuleInjector = moduleInjector || parentInjector; 

  // If this is a "top-level" Angular component or the parent component may belong to a
  // different `NgModule`, use the module
  // injector for module-specific dependencies.
  // If there is a parent component that belongs to the same
  // `NgModule`, use its injector.
  const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
    // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this
    // component belongs to.
    componentFactoryResolver = moduleInjector.get(ComponentFactoryResolver);
    const componentFactory = ComponentFactory<any> = 
      componentFactoryResolver.resolveComponentFactory(info.component); 
    if (!componentFactory) 
      throw new Error(`Expecting ComponentFactory for: '${getTypeName(info.component)}'`);

    injectorPromise = new ParentInjectorPromise(element);
    const facade = new DowngradeComponentAdapter(
      element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
      componentFactory, wrapCallback);

    facade.createComponent(projectableNodes);
    facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
    facade.setupOutputs();
    facade.registerCleanup();

    injectorPromise.resolve(facade.getInjector()); 
  }

  // If this is run async, it is possible
  // that it is not run inside a
  // digest and initial input values will not be detected.
  const downgradeFn = isNgUpgradeLite
    ? doDowngrade : (pInjector:
Injector, mInjector: Injector) => {
  if (!ngZone) {
    ngZone = pInjector.get(NgZone);
  }

  wrapCallback(() => doDowngrade(pInjector, mInjector))();
}

// NOTE:
// Not using 'ParentInjectorPromise.all()' (which is inherited from 'SyncPromise'), because
// Closure Compiler (or some related tool) complains:
// 'TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a function'
SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector]) =>
  downgradeFn(pInjector, mInjector);)
  ranAsync = true;
};

// NOTE:
// Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
// Closure Compiler (or some related tool) complains:
// 'TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a function'
SyncPromise.all([finalParentInjector, finalModuleInjector]).then((pInjector, mInjector) =>
  downgradeFn(pInjector, mInjector));

ranAsync = true;
}
};

// bracket-notation because
// of closure - see #14441
directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
return directiveFactory;
}

/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's `$compile`. *
 * An class ParentInjectorPromise extends SyncPromise<Injector>
 */
class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY);

  constructor(private element: IAugmentedJQuery) {
    super();

    // Store the promise on the element.
    element.data !(this.injectorKey, this);

    resolve(injector: Injector): void {
      // Store the real injector on the element.
      element.data ![this.injectorKey, injector];

      // Release the element to prevent memory leaks.
      this.element = null !; un!

      // Resolve the promise.
      super.resolve(injector);
    }
}

/**
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 * Reserved.
 *
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 * LICENSE file at https://angular.io/license
 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is
 * provided in an `NgModule` that will be part of the upgrade application. For example, let's assume we have a
 * defined `HeroesService` on an
 * upgrade.
 *
 * Now we can register the `downgradeInjectable` factory function for the service on an
 * AngularJS module.
 *
 * Inside an AngularJS component's controller we can get hold of the
 * downgraded service via the name we gave when downgrading. In this controller, we use the
 * downgraded service as we would an
 * AngularJS service:
 *
 * For example, it is _OK_ to use a downgraded service in an
 * upgraded component that is only used
 * from a downgraded Angular component provided by the same Angular
 * module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used
 * independently of Angular or
 * use it in a downgraded Angular component from a different module.
 *
 * This option is only necessary when using 'downgradeModule()' to downgrade more than one
 * AngularJS component's controller can only hold one
 * instance of a
 * downgradable Injectable at a time.
 *
 */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectorName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectorName}'`;
    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];

  return factory;
}
* Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license
that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {ElementRef, Injector,
SimpleChanges} from '@angular/core';\n\nimport {DirectiveRequireProperty, IAugmentedJQuery,
ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective, IHttpBackendService,
IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from
'./angular1';\nimport {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE}
from './constants';\nimport {controllerKey, directiveNormalize, isFunction} from './util';\n\n\n\n// Constants\nconst
REQUIRE_PREFIX_RE = /^(\\^\\^?)?(\\?)?(\\^\\^?)?/;\n\n// Interfaces\nexport interface IBindingDestination {\n
[key: string]: any;\n $onChanges?: (changes: SimpleChanges) => void;\n}\n\nexport interface IControllerInstance
extends IBindingDestination {\n $doCheck?: () => void;\n $onDestroy?: () => void;\n $onInit?: () => void;\n
$postLink?: () => void;\n}\n\n// Classes\nexport class UpgradeHelper {\n public readonly $injector:
IInjectorService;\n public readonly element: Element;\n public readonly $element: IAugmentedJQuery;\n public
readonly directive: IDirective;\n\n private readonly $compile: ICompileService;\n private readonly $controller:
IControllerService;\n\n constructor(\n
private injector: Injector, private name: string, elementRef: ElementRef,\n
directive?: IDirective) {\n this.$injector = injector.get($INJECTOR);\n this.$compile =
this.$injector.get($COMPILE);\n this.$controller = this.$injector.get($CONTROLLER);\n\n this.element =
elementRef.nativeElement;\n this.$element = angularElement(this.element);\n\n this.directive = directive ||
UpgradeHelper.getDirective(this.$injector, name);\n }\n\n static getDirective($injector: IInjectorService, name:
string): IDirective {\n const directives: IDirective[] = $injector.get(name + 'Directive');\n if (directives.length >
1) {\n
throw new Error(`Only support single directive definition for: ${name}`);\n }\n\n const directive =
directives[0];\n\n // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was a\n
// user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.\n if (directive.compile
&& !directive.link) notSupported(name, 'compile');\n if (directive.replace) notSupported(name, 'replace');\n if
(directive.terminal) notSupported(name, 'terminal');\n\n return directive;\n }\n\n static getTemplate(\n
$injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false,\n
$element?:
IAugmentedJQuery): string|Promise<string> {\n if (directive.template !== undefined) {\n
return
getOrCall<string>(directive.template, $element);\n } else if (directive.templateUrl) {\n
const $templateCache =
$injector.get($TEMPLATE_CACHE) as ITemplateCacheService;\n
const url =
getOrCall<string>(directive.templateUrl, $element);\n
const template = $templateCache.get(url);\n\n
if
(template !== undefined) {\n
return template;\n
} else if (!fetchRemoteTemplate) {\n
throw new
Error('loading directive templates asynchronously is not supported');\n
}\n\n
return new Promise((resolve,
reject) => {\n
const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;\n
$httpBackend('GET', url, null, (status: number, response: string) => {\n
if (status === 200) {\n
resolve($templateCache.put(url, response));\n
} else {\n
reject(`GET component template from '${url}'
returned '${status}: ${response}'`);\n
}\n
});\n
});\n } else {\n
throw new Error(`Directive
'${directive.name}' is not a component, it is missing template.`);\n }\n }\n\n buildController(controllerType:
IController, $scope: IScope) {\n // TODO: Document that we do not pre-assign bindings on the controller
instance.\n // Quoted properties below so that this code can be optimized with Closure Compiler.\n const locals =
{'$scope': $scope, '$element': this.$element};\n const controller = this.$controller(controllerType, locals, null,
this.directive.controllerAs);\n\n this.$element.data !(controllerKey(this.directive.name !), controller);\n\n return
controller;\n }\n\n compileTemplate(template?: string): ILinkFn {\n if (template === undefined) {\n
template
=\n
UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;\n }\n\n return
this.compileHtml(template);\n }\n\n onDestroy($scope: IScope, controllerInstance?: any) {\n if
(controllerInstance && isFunction(controllerInstance.$onDestroy)) {\n
controllerInstance.$onDestroy();\n }\n
$scope.$destroy();\n\n // Clean the jQuery/jqLite data on the component+child elements.\n // Equivelent to how
jQuery/jqLite invoke `cleanData` on an Element (this.element)\n //
https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223\n
// https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/jqLite.js#L306-

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angularElement.cleanData((this.element));

angularElement.cleanData(this.element.querySelectorAll('*'));

prepareTransclusion(): ILinkFn|undefined {
  const transclude = this.directive.transclude;
  const contentChildNodes = this.extractChildNodes();
  const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
    // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
    // `Stemplate` is empty. Since the transcluded content comes from Angular, not AngularJS, there will be no transclusion scope here.
    // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
    scope = scope || {};
    $destroy = $destroy || undefined;
    return cloneAttachFn(($template, scope, cloneAttachFn));
  }

  let $template = contentChildNodes;
  if (transclude) {
    const constSlots = Object.create(null);
    const transclude = typeof transclude === 'object' ? transclude : {};
    $template = [];
    const filledSlots = Object.create(null);
    const $templateMap = Object.create(null);
    const slots = Object.keys(transclude).map(slotName => {
      const selector = transclude[slotName];
      const optional = selector.charAt(0) === '?' ? selector.substring(1) : selector;
      if ($templateMap[optional]) {
        throw new Error('Required transclusion slot `{$template[optional]` on directive: `{$this.name}`');
      }
    });
    $template.forEach(slot => {
      if (slot.nodeType === Node.TEXT_NODE && !slot.nodeValue) {
        slot.nodeValue = '\u200C';
      }
    });
    return attachChildrenFn;
  }

  resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);
    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
      const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance};
      Object.keys(requiredControllersMap).forEach(key => {
        controllerInstance[key] = requiredControllersMap[key];
      });
    }
  }

  resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);
    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
      const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance};
      Object.keys(requiredControllersMap).forEach(key => {
        controllerInstance[key] = requiredControllersMap[key];
      });
    }
  }

  private compileHtml(html: string): ILinkFn {
    this.element.innerHTML = html;
    return this.$compile(this.element.childNodes);
  }

  private extractChildNodes(): Node[] {
    const childNodes: Node[] = [];
    let childNode: Node|null;
    while (childNode = this.element.firstChild) {
      this.element.removeChild(childNode);
      childNodes.push(childNode);
    }
    return childNodes;
  }

  private getDirectiveRequire(): DirectiveRequireProperty {
    const require = this.directive.require || (this.directive.controller && this.directive.name) || {};
    if (isMap(require)) {
      Object.keys(require).forEach(key => {
        const value = require[key];
        const match = value.match(REQUIRE_PREFIX_RE);
        const name = value.substring(match[0].length);
        if (!name) {
          require[key] = match[0] + key;
        }
      });
    }
    return require;
  }
return require;

private resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any): SingleOrListOrMap<IControllerInstance|null> {
  if (!require) { return null; }
  else if (Array.isArray(require)) {
    return require.map(req => this.resolveRequire(require));
  } else if (typeof require === 'object') {
    const value: {[key: string]: IControllerInstance} = {};
    Object.keys(require).forEach(key => {
      value[key] = this.resolveRequire(require[key]);
    });
    return value;
  } else if (typeof require === 'string') {
    const constmatch = require.match(REQUIRE_PREFIX_RE); //
    const inheritType = match[1] || match[3];
    const constname = require.substring(match[0].length); //
    const isOptional = !match[2];
    const constsearchParents = !inheritType; //
    const conststartOnParent = inheritType === '^';
    const ctrlKey = controllerKey(name); //
    const constelem = startOnParent ? this.$element.parent() : this.$element;
    const value = searchParents ?
                             elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);
    if (!value && !isOptional) {
      throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
    }
    return value;
  } else {
    throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}':
          $[require]$');
  }
}

function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for `typeof T !== 'object'`.
function isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T} {
  return value && !Array.isArray(value) && typeof value === 'object';
}

function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}

import {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit, SimpleChange, SimpleChanges, Type} from '@angular/core';

import {IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '...'../common/src/angular1'!;import {SCOPE} from '...'../common/src/consts';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '...'../common/src/upgrade_helper';
import {Init, NgModule, OnInit, OnChanges, DoCheck, OnDestroy, ElementRef, NgZone, BrowserModule, inject, Directive, HostListener, HostBinding, Input, Output, SimpleChanges, SimpleChange, ViewContainerRef, ChangeDetectorRef} from '@angular/core';

import {Directive, DoCheck, ElementRef} from '@angular/core';

class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
  constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
    super(new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap) as any;
  }
}

UpgradeNg1ComponentAdapterBuilder implements OnInit, OnChanges, DoCheck, OnDestroy {
constructor(@Inject(SSCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
  super(new UpgradeNg1ComponentAdapter(injector, name, elementRef, selfDirective || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap) as any;
}

this.directive = {selector: selector, inputs: inputsRename, outputs: outputsRename};

function($scope, $element) {
  $scope.$on('SomeEvent', function() {
    // Do something
  });
}

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switch (bindingType) {
    case '@':
    case '<':
        this.inputs.push(inputName);
        this.inputsRename.push(inputNameRename);
        this.propertyMap[inputName] = propName;
        break;
    case '=':
        this.inputs.push(inputName);
        this.inputsRename.push(inputNameRename);
        this.propertyMap[inputName] = propName;

        this.outputs.push(outputName);
        this.outputsRename.push(outputNameRename);
        this.propertyMap[outputName] = propName;

        this.checkProperties.push(propName);
        this.propertyOutputs.push(outputName);
        break;
    case '&':
        this.outputs.push(outputName);
        this.outputsRename.push(outputNameRename);
        this.propertyMap[outputName] = propName;
        break;
    default:
        let json = JSON.stringify(context);
        throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
    }
  });
}

/**
 * Upgrade ng1 components into Angular.
 */
static resolve(exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder}, $injector: IInjectorService): Promise<string[]> {
  const promises = Object.keys(exportedComponents).map(name => {
    const exportedComponent = exportedComponents[name];
    exportedComponent.directive = UpgradeHelper.getDirective(Sinjector, name);
    exportedComponent.extractBindings($injector, exportedComponent.directives, true).then((template) => exportedComponent.template = template).
  });

  return Promise.all(promises);
}

class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance: IControllerInstance|null = null;
  destinationObj: IBindingDestination|null = null;
  checkLastValues: any[] = [];
  directive: IDirective;
  element: Element;
  $element: any = null;
  componentScope: IScope;

  constructor(private helper: UpgradeHelper, scope: IScope, private template: string, private inputs: string[], private outputs: string[], private propOuts: string[], private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);

    const controllerType = this.directive.controller;

    if (this.directive.bindToController && controllerType) {
      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
      this.destinationObj = this.controllerInstance;
    } else {
      this.destinationObj = this.componentScope;
    }

    for (let i = 0; i < inputs.length; i++) {
      (this as any)[inputs[i]] = null;
    }
    for (let j = 0; j < outputs.length; j++) {
      const emitter = (this as any)[outputs[j]] = new EventEmitter<any>();
      if (this.propOuts.indexOf(outputs[j]) === -1) {
        this.setComponentProperty(outputs[j], (emitter => (value: any) => emitter.emit(value))(emitter));
      }
    }
    for (let k = 0; k < propOuts.length; k++) {
      this.checkLastValues.push(INITIAL_VALUE);
    }

    this.ngOnInit();
  }

  ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate(this.template);

    // Instantiate controller (if not already done so)
    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType && !bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
      this.destinationObj = this.controllerInstance;
    }

    this.controllerInstance.$onInit();

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLink(this.componentScope, this.$element, attrs, this.controllerInstance, transcludeFn);
    }

    if (postLink) {
      postLink(this.componentScope, this.$element, attrs, this.controllerInstance, transcludeFn);
    }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }
  }

  ngOnChanges(changes: SimpleChanges) {
    const ng1Changes: any = {};
    Object.keys(changes).forEach(name => {
      const change: SimpleChange = changes[name];
      this.setComponentProperty(name, change.currentValue);
      ng1Changes[this.propertyMap[name]] = change;
    });
  }
}

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```javascript
if (isFunction(this.destinationObj.$onChanges)) {
  this.destinationObj.$onChanges(ng1Changes);
}

if (isFunction(this.destinationObj.$onChanges)) {
  this.destinationObj.$onChanges(ng1Changes);
}

if (isFunction(this.destinationObj.$onChanges)) {
  this.destinationObj.$onChanges(ng1Changes);
}

checkProperties.forEach((propName, i) => {
  const value = destinationObj[propName];
  const last = lastValues[i];
  if (!strictEquals(last, value)) {
    const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]].emit(lastValues[i] = value);
  }
}

if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
  this.controllerInstance.$doCheck();
}

ngOnDestroy() { this.helper.onDestroy(this.componentScope, this.controllerInstance); }

setComponentProperty(name: string, value: any) {
  this.destinationObj[this.propertyMap[name]] = value;
}
```

```javascript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 *
*/

import {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability, Type, isDevMode, resolveForwardRef} from '@angular/core';
import {platformBrowserDynamic} from '@angular/platform-browser-dynamic';

import {IAngularBootstrapConfig, IAugmentedJQuery, IInjectorService, IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../common/src/angular1';
import {$$TESTABILITY, $COMPILE, $INJECTOR, $ROOT_SCOPE, COMPILER_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY, UPGRADE_APP_TYPE_KEY} from '../../common/src/constants';
import {downgradeComponent} from '../../common/src/downgrade_component';
import {downgradeInjectable} from '../../common/src/downgrade_injectable';
import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey, onError} from '../../common/src/util';

import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 *    (See `UpgradeAdapter#upgradeNg1Component()`)  
 * 2. creation of AngularJS directive from Angular component.
 *    (See `UpgradeAdapter#downgradeNg2Component()`)  
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 *    coexisting in a single application.
 * 4. Angular components always execute inside Angular framework codebase regardless of framework where they are instantiated.
 * 5. An AngularJS component can be upgraded to an Angular component. This creates an angular directive, which bootstraps the AngularJS component directive in that location.
 * 6. An Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which boots the Angular component in that location.
 * 7. Whenever an adapter component is instantiated the host element is owned by the framework that instantiated the component. This implies that component bindings will always follow the semantics of the instantiation framework. The syntax is always that of Angular syntax.
 * 8. AngularJS is always bootstrapped first and owns the bottom most view.
 * 9. The new application is running in Angular zone, and therefore it no longer needs calls to `$apply()`.
 *
 * @usageNotes
 * ### Mental Model
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level.
 * 1. There are two independent frameworks running in a single application, each framework treats the other as a black box.
 * 2. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.
 * 3. AngularJS directives always execute inside AngularJS framework codebase regardless of where they are instantiated.
 * 4. Angular components always execute inside Angular framework codebase regardless of framework where they are instantiated.
 * 5. An AngularJS component can be upgraded to an Angular component. This creates an angular directive, which bootstraps the AngularJS component directive in that location.
 * 6. An Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which boots the Angular component in that location.
 * 7. Whenever an adapter component is instantiated the host element is owned by the framework that instantiated the component.
 * 8. AngularJS is always bootstrapped first and owns the bottom most view.
 * 9. The new application is running in Angular zone, and therefore it no longer needs calls to `$apply()`.
 */

/**
 * @param {UpgradeAdapter} upgradeAdapter
 * @param {UpgradeNg2Module} ng2Module
 * @param {UpgradeNg1Module} ng1Module
 */
function upgradeNg1Component(upgradeAdapter, ng2Module, ng1Module) {
  // Typical usage:
  // upgradeNg1Component(adapter, ng2Module, ng1Module);

  upgradeCount += 1;

  const ng1Component = (upgradeAdapter as any).upgradeNg1ComponentAdapterBuilder.getUpgradeFn();

  // Upgrade the AngularJS component to an Angular component
  upgradeAdapter.upgradeNg1Component(ng1Component);

  // Upgrade the AngularJS module to an Angular module
  upgradeAdapter.upgradeNg2Component(ng2Module);

  // Bootstrap the Angular application with the new Angular module
  bootstrap(ng1Component, upgradeAdapter).then(() => {
    // Execute the new application
    ng2Module.start();
  });
}
```
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Definition Object=https://docs.angularjs.org/api/ng/service/$compile are
   *   supported:
   *   - `compile`: not
   *     supported because the host element is owned by Angular, which does
   *     not allow modifying DOM structure
during compilation.
   *   - `controller`: supported. (NOTE: injection of `$attrs` and `Stransclude` is not
   *     supported.)
   *   - `controllerAs`: supported.
   *   - `bindToController`: supported.
   *   - `link`: supported.
   *   - `replace`: not supported.
   *   - `require`: supported. (NOTE: `require` is set to `E`.)
   *   - `restrict`: must be set to 'E'.
   *   - `scope`: supported.
   *   - `template`: supported.
   *   - `templateUrl`: supported.
   *   - `transclude`: supported.
   *   - `link`: supported.
   *   - `replace`: not supported.
   *   - `require`: supported. (NOTE: injection of `$attrs` and `$transclude` is not
   *     supported.)
   *   - `controller`: supported. (NOTE: injection of `$attrs` and `$transclude` is not
   *     supported.)
   *   - `controllerAs`: supported.
   *   - `bindToController`: supported.
   *   - `link`: supported.
   *   - `replace`: not supported.
   *   - `require`: supported.
   *   - `restrict`: must be set to 'E'.
   *   - `scope`: supported.
   *   - `template`: supported.
   *   - `templateUrl`: supported.
   *   - `transclude`: supported.
   *   - `link`: supported.
   *   - `replace`: not supported.
   *   - `require`: supported.
   *   - `restrict`: must be set to 'E'.
   *   - `scope`: supported.
   *   - `template`: supported.
   *   - `templateUrl`: supported.
   *   - `transclude`: supported.
   *   - `link`: supported.
   *   - `replace`: not supported.
   *   - `require`: supported.
   *   - `restrict`: must be set to 'E'.
   *   - `scope`: supported.
   *   - `template`: supported.
   *   - `templateUrl`: supported.
   *   - `transclude`: supported.
   *   - `link`: supported.
   *   - `replace`: not supported.
   *   - `require`: supported.
   *   - `restrict`: must be set to 'E'.
   *   - `scope`: supported.
   *   - `template`: supported.
   *   - `templateUrl`: supported.
   *   - `transclude`: supported.
   *   - `link`: supported.
   *   - `replace`: not supported.
   *   - `require`: supported.
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   *   - `scope`: supported.
   *   - `template`: supported.
   *   - `templateUrl`: supported.
   *   - `transclude`: supported.
   *   - `link`: supported.
* })\n * class Ng2 {\n * }\n *\n * @NgModule({\n * declarations: [Ng2,
adapter.upgradeNg1Component('ng1')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n * document.body.innerHTML = '<ng2 name=\"World\">project</ng2>';\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *
expect(document.body.textContent).toEqual(\n *
\"ng2[ng1[Hello World!](transclude)](project)\");\n * });\n
* ```\n */\n bootstrap(element: Element, modules?: any[], config?: IAngularBootstrapConfig):\n
UpgradeAdapterRef {\n this.declareNg1Module(modules);\n\n const upgrade = new UpgradeAdapterRef();\n\n
// Make sure resumeBootstrap() only exists if the current bootstrap is deferred\n const windowAngular = (window
as any /** TODO #???? */)['angular'];\n windowAngular.resumeBootstrap = undefined;\n\n this.ngZone.run(()
=> { bootstrap(element, [this.ng1Module.name], config !); });\n const ng1BootstrapPromise = new
Promise((resolve) => {\n
if (windowAngular.resumeBootstrap) {\n
const originalResumeBootstrap: () =>
void = windowAngular.resumeBootstrap;\n
windowAngular.resumeBootstrap = function() {\n
windowAngular.resumeBootstrap = originalResumeBootstrap;\n
const r =
windowAngular.resumeBootstrap.apply(this, arguments);\n
resolve();\n
return r;\n
};\n
} else {\n
resolve();\n
}\n });\n\n Promise.all([this.ng2BootstrapDeferred.promise,
ng1BootstrapPromise]).then(([ng1Injector]) => {\n
angularElement(element).data
!(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);\n
this.moduleRef
!.injector.get<NgZone>(NgZone).run(\n
() => { (<any>upgrade)._bootstrapDone(this.moduleRef,
ng1Injector); });\n }, onError);\n return upgrade;\n }\n\n /**\n * Allows AngularJS service to be accessible
from Angular.\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * class Login { ... }\n * class Server { ...
}\n *\n * @Injectable()\n * class Example {\n * constructor(@Inject('server') server, login: Login) {\n *
...\n * }\n * }\n *\n * const module = angular.module('myExample', []);\n * module.service('server',
Server);\n * module.service('login', Login);\n *\n * const adapter = new UpgradeAdapter(MyNg2Module);\n *
adapter.upgradeNg1Provider('server');\n * adapter.upgradeNg1Provider('login', {asToken: Login});\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready((ref) => {\n * const example: Example =
ref.ng2Injector.get(Example);\n * });\n *\n * ```\n */\n upgradeNg1Provider(name: string, options?: {asToken:
any}) {\n const token = options && options.asToken || name;\n this.upgradedProviders.push({\n
provide:
token,\n
useFactory: ($injector: IInjectorService) => $injector.get(name),\n
deps: [$INJECTOR]\n });\n
}\n\n /**\n * Allows Angular service to be accessible from AngularJS.\n *\n * @usageNotes\n * ###
Example\n *\n * ```\n * class Example {\n * }\n *\n * const adapter = new
UpgradeAdapter(MyNg2Module);\n *\n * const module = angular.module('myExample', []);\n *
module.factory('example', adapter.downgradeNg2Provider(Example));\n *\n * adapter.bootstrap(document.body,
['myExample']).ready((ref) => {\n * const example: Example = ref.ng1Injector.get('example');\n * });\n *\n *
```\n */\n downgradeNg2Provider(token: any): Function { return downgradeInjectable(token); }\n\n /**\n *
Declare the AngularJS upgrade module for this adapter without bootstrapping the whole\n * hybrid application.\n
*\n * This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.\n *\n * @param modules
The AngularJS modules that this upgrade module should depend upon.\n * @returns The AngularJS upgrade
module that is declared by this method\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * const
upgradeAdapter = new UpgradeAdapter(MyNg2Module);\n * upgradeAdapter.declareNg1Module(['heroApp']);\n
* ```\n */\n private declareNg1Module(modules: string[] = []): IModule {\n const delayApplyExps: Function[] =
[];\n let original$applyFn: Function;\n let rootScopePrototype: any;\n let rootScope: IRootScopeService;\n
const upgradeAdapter = this;\n const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);\n
const platformRef = platformBrowserDynamic();\n\n this.ngZone = new NgZone({enableLongStackTrace:
Zone.hasOwnProperty('longStackTraceZoneSpec')});\n this.ng2BootstrapDeferred = new Deferred();\n
ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)\n
.factory(INJECTOR_KEY, () => this.moduleRef !.injector.get(Injector))\n
.factory(\n
LAZY_MODULE_REF,\n
[INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef)])\n
.constant(NG_ZONE_KEY, this.ngZone)\n
.factory(COMPILER_KEY, () => this.moduleRef

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```javascript
!injector.get(Compiler))
        .config([
          '$provide', '$injector',
          (provide: IProvideService,
          ng1Injector: IInjectorService) => {
            provide.decorator($ROOT_SCOPE, [
              '$delegate',
            function(rootScopeDelegate: IRootScopeService) {
              // Capture the root apply so that we can delay first
call to $apply until we're
// bootstrap Angular and then we replay and restore the $apply.

rootScopePrototype = rootScopeDelegate.constructor.prototype;
        if
(rootScopePrototype.hasOwnProperty('Sapply')) {
          originalSapplyFn = rootScopePrototype.Sapply;

 rootScopePrototype.Sapply = (exp: any) => delayApplyExps.push(exp);
        } else {
          throw
new Error('Failed to find \$Sapply on \$RootScope!');
        }

return rootScope =

rootScopeDelegate;
        }]);
        if (ng1Injector.has($$TESTABILITY)) {

 provide.decorator($$TESTABILITY, [
          '$delegate',
          function(testabilityDelegate: ITestabilityService) {
            const originalWhenStable: Function = testabilityDelegate.whenStable;
            // Cannot use arrow function below because we need the context
const newWhenStable = function(this: unknown, callback: Function) {
              originalWhenStable.call(this, function(args) {

              if (ng2Testability.isStable()) {
                callback.apply(this, arguments);
              } else {

ng2Testability.whenStable(newWhenStable.bind(this, callback));
              }
            });

 return testabilityDelegate;

            })
        });

 ng1Module.run([
      '$injector', '$rootScope',
      (ng1Injector: IInjectorService, rootScope: IRootScopeService) => {

UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector)
            .then(() => {
              // Note: There is a bug in TS 2.4 that prevents us from
// inlining this into @NgModule

// TODO(tbosch): find or file a bug against TypeScript for this.
          const ngModule = {
            providers: [
              {provide: $INJECTOR, useFactory: () => ng1Injector},
              {provide: $COMPILE,
              useFactory: () => ng1Injector.get($COMPILE)},
              this.upgradedProviders
            ],
            imports: [resolveForwardRef(this.ng2AppModule)],
            entryComponents: this.downgradedComponents
          };

 // At this point we have ng1 injector and we have prepared
// ng1 components to be
upgraded, we now can bootstrap ng2.
          @NgModule({jit: true, ...ngModule})
          class

DynamicNgUpgradeModule {
            constructor() {}
            ngDoBootstrap() {}
          };

platformRef
        .bootstrapModule(DynamicNgUpgradeModule, {
            compilerOptions !,
            ngZone: this.ngZone
        })
        .then((ref: NgModuleRef<any>) => {
          this.moduleRef = ref;

          this.ngZone.run(() => {

          if (rootScopePrototype) {
            rootScopePrototype.$apply = original$applyFn;  // restore original $apply
                while (delayApplyExps.length) {
                rootScope.$apply(delayApplyExps.shift());
            }

            rootScopePrototype = null;
          }
        });
      })
      .catch((e) =>
        this.ng2BootstrapDeferred.reject(e));
    }

    ng1Module;

  }
}

/**
 * Synchronous
promise-like object to wrap parent injectors,
* to preserve the synchronous nature of AngularJS's $compile.
*/
class ParentInjectorPromise {
  // TODO(issue/24571): remove '!'.
  private injector !: Injector;
  private
  callbacks: ((injector: Injector) => any)[] = []; // synchronous

  constructor(private element: IAugmentedJQuery) {
    // store the
promise-like object to wrap parent injectors,
* to preserve the synchronous nature of AngularJS's $compile.

// TODO(tbosch): find or file a bug against TypeScript for this.
  const ngModule = {
    providers: [
      {provide: $INJECTOR, useFactory: () => ng1Injector},
      {provide: $COMPILE,
      useFactory: () => ng1Injector.get($COMPILE)},
      this.upgradedProviders
    ],
    imports: [resolveForwardRef(this.ng2AppModule)],
    entryComponents: this.downgradedComponents
  };

  // At this point we have ng1 injector and we have prepared
// ng1 components to be
upgraded, we now can bootstrap ng2.
  @NgModule({jit: true, ...ngModule})
  class

DynamicNgUpgradeModule {
    constructor() {}
    ngDoBootstrap() {}
  };

platformRef
  .bootstrapModule(DynamicNgUpgradeModule, {
    compilerOptions !,
    ngZone: this.ngZone
  })
  .then((ref: NgModuleRef<any>) => {
    this.moduleRef = ref;

    this.ngZone.run(() => {

    if (rootScope.$$phase) {
      if (isDevMode()) {
        console.warn(
          'A digest was triggered
          while one was already in progress. This may mean that something is triggering digests outside the Angular zone.');

      return rootScope.$valAsync();
    }

    return rootScope.$digest();
  });

  return rootScope.$valAsync();
}

return rootScope.$valAsync();
}
```

element data to point to the real injector
this.element.data !(controllerKey(INJECTOR_KEY), injector);
// clean out the element to prevent memory leaks
this.element = null !
// run all the queued callbacks
this.callbacks.forEach((callback) => callback(injector));
// clean out the element to prevent memory leaks
this.element = null !;
// run all the queued callbacks
this.callbacks.forEach((callback) => callback(injector));

/**
 * Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.
 * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
 * [Ahead-of-Time compilation](guide/aot-compiler).
 * @publicApi
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null !;

  public ng1RootScope: IRootScopeService = null !;
  public ng1Injector: IInjectorService = null !;
  public ng2ModuleRef: NgModuleRef<any> = null !;
  public ng2Injector: Injector = null !;

  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ngModuleRef.injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
    this._readyFn && this._readyFn(this);
  }

  /**
   * Register a callback function which is notified upon successful hybrid
   * AngularJS / Angular application. therefore it does not require a call to `$apply()`.
   * The `ready` callback function is invoked inside the Angular zone, therefore it does not require a call to `$apply()`.
   * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
   * https://angular.io/license. All Rights Reserved. Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
   * https://angular.io/license. All Rights Reserved.
   */
  public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) { this._readyFn = fn; }

  /**
   * Dispose of running hybrid AngularJS / Angular application.
   * Dispose of running hybrid AngularJS / Angular application.
   * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
   * https://angular.io/license. All Rights Reserved. Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
   * https://angular.io/license. All Rights Reserved.
   */
  public dispose() {
    this.ng1Injector!.get($ROOT_SCOPE).$destroy();
    this.ng2ModuleRef!.destroy();
  }
}

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade.umd.js.map

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

{"version":3,"file":"static.js","sources":[]}
boolean) => IInjectorService, version: {major: number}, resumeBootstrap: () => void, getTestability: (e: Element) => ITestabilityService

true;

{
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: (e: Element) => ITestabilityService
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`. Not * @license
 * Copyright Google Inc. All Rights Reserved.* Use of this source code is governed by an MIT-style license that can be*n in the LICENSE file at https://angular.io/license
 */

export const bootstrap: typeof angular.bootstrap = (e, modules, config) => angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug

export const module_: typeof angular.module = (prefix, dependencies) => angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes => angular.element.cleanData(nodes);

export const injector: typeof angular.injector = (modules: Array<string|IInjectable>, strictDi?) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$$angularInjector';
export const LAZY_MODULE_REF = '$$$angularLazyNgModule';
export const NG_ZONE_KEY = '$$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$$angularUpgradeAppType';
export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = ngModel: ng => ng.$upgradeModule('$$UpgradeModule', ng.$injector);

export const REQUIREJECTOR = ng => ($$$angularUpgradeModuleNamespace ? $$$angularUpgradeModuleNamespace(ng.$injector) : ng.$injector);
unwatch = null;
          observeFn(attrs[input.attr]);
        })
    }

    if (isAnchor) {
      expr = attrs[input.expr];
    } else if (attrs.hasOwnProperty(input.bindAttr)) {
      expr = attrs[input.bindAttr];
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
      const watchFn = (prop => (currValue: any, prevValue: any) =>
          this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }

    // Invoke `ngOnChanges()` and Change Detection
    // (when necessary)
    const detectChanges = () => this.changeDetector.detectChanges();
    const prototype = this.componentFactory.componentType.prototype;
    this.implementsOnChanges = !!(prototype && (<OnChanges>prototype).ngOnChanges);

    this.componentScope.$watch(() => this.inputChangeCount,
        this.wrapCallback(() => {
          // Invoke `ngOnChanges()` if not opted out of propagating digests, invoke change detection
          if (!propagateDigest) {
            detectChanges();
          }

          // If necessary, attach the view so that
          // it will be dirty-checked.
          if (manuallyAttachView || !propagateDigest) {
            let unwatch: Function|null = this.componentScope.$watch(() => {
              unwatch !();
              unwatch = null;

              const appRef =
                this.parentInjector.get<ApplicationRef>(ApplicationRef);
              appRef.attachView(this.componentRef.hostView);
            });
          }

          // If necessary, attach the view so that
          // it will be dirty-checked.
          if (manuallyAttachView || !propagateDigest) {
            let unwatch: Function|null = this.componentScope.$watch(() => {
              unwatch !();
              unwatch = null;

              const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
              const destroyComponentRef =
                this.componentRef.injector.get(ComponentFactory).convertToPropertyBinding(attrs[input.expr], inputpageTitle);
              this.registerCleanup();
            });
          }

          // If necessary, attach the view so that
          // it will be dirty-checked.
          if (manuallyAttachView || !propagateDigest) {
            let unwatch: Function|null = this.componentScope.$watch(() => {
              unwatch !();
              unwatch = null;

              const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
              const destroyComponentRef =
                this.componentRef.injector.get(ComponentFactory).convertToPropertyBinding(attrs[input.expr], inputpageTitle);
              this.registerCleanup();
            });
          }

          // If necessary, attach the view so that
          // it will be dirty-checked.
          if (manuallyAttachView || !propagateDigest) {
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              unwatch !();
              unwatch = null;

              const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
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                this.componentRef.injector.get(ComponentFactory).convertToPropertyBinding(attrs[input.expr], inputpageTitle);
              this.registerCleanup();
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              unwatch !();
              unwatch = null;

              const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
              const destroyComponentRef =
                this.componentRef.injector.get(ComponentFactory).convertToPropertyBinding(attrs[input.expr], inputpageTitle);
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              unwatch !();
              unwatch = null;

              const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
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                this.componentRef.injector.get(ComponentFactory).convertToPropertyBinding(attrs[input.expr], inputpageTitle);
              this.registerCleanup();
            });
          }

          // If necessary, attach the view so that
          // it will be dirty-checked.
          if (manuallyAttachView || !propagateDigest) {
            let unwatch: Function|null = this.componentScope.$watch(() => {
              unwatch !();
              unwatch = null;

              const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
              const destroyComponentRef =
                this.componentRef.injector.get(ComponentFactory).convertToPropertyBinding(attrs[input.expr], inputpageTitle);
into `ngContent` groups, based on the given content selectors.

```typescript
function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[] {
  const projectableNodes: Node[][] = [];
  let wildcardNgContentIndex: number;

  for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
    projectableNodes[i] = [];
  }

  for (let j = 0, jj = nodes.length; j < jj; ++j) {
    const node = nodes[j];
    const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
    if (ngContentIndex != null) {
      projectableNodes[ngContentIndex].push(node);
    }
  }

  return projectableNodes;
}

function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
  const ngContentIndices: number[] = [];
  let wildcardNgContentIndex: number = -1;
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (selector === '*') {
      wildcardNgContentIndex = i;
    } else {
      if (matchesSelector(element, selector)) {
        ngContentIndices.push(i);
      }
    }
  }
  ngContentIndices.sort();

  if (wildcardNgContentIndex !== -1) {
    ngContentIndices.push(wildcardNgContentIndex);
  }
  return ngContentIndices.length ? ngContentIndices[0] : null;
}

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches ||
              elProto.matchesSelector ||
              elProto.mozMatchesSelector ||
              elProto.msMatchesSelector ||
              elProto.oMatchesSelector ||
              elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}
```

---

```typescript
import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 * This helper function returns a factory function to be used for registering an Angular component.
 */

```
AngularJS templates.

* The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the `@Component` directive in our Angular module.

* An example of using this function is shown in the snippet below:

```typescript
// downgradeComponent({
  // component: Type<any>,
  // propagateDigest?: boolean,

  // For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#downgrading-angular-components-to-angularjs).

  // @example
  // upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"

  // For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#downgrading-angular-components-to-angularjs).

  // The type of the Component that will be downgraded
  // `componentType: string`: The name of the downgraded module (if any) that the component
  // `componentName: string`: The name of the downgraded module (if any) that the component
  // `moduleToBelongTo: string`: The name of the downgraded module (if any) that the component
  // `propagateDigest?: boolean`: Whether to perform change detection on the component on every

  // [Upgrade guide](guide/upgrade#downgrading-angular-components-to-angularjs).

  // For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#downgrading-angular-components-to-angularjs).

  // The type of the Component that will be downgraded
  // `propagateDigest?: boolean`: Whether to perform change detection on the component on every

  // [Upgrade guide](guide/upgrade#downgrading-angular-components-to-angularjs).

  // For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#downgrading-angular-components-to-angularjs).

  // The type of the Component that will be downgraded
  // `propagateDigest?: boolean`: Whether to perform change detection on the component on every
We bootstrap the downgraded component declaring the `NgModule`'s injector as `finalModuleInjector`.

- If there is a parent component (and thus a `parentInjector`) and we are sure that it belongs to the same `NgModule` as this downgraded component (e.g. because there is only one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and `finalParentInjector`).
- If there is a parent component, but it may belong to a different `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded component.

Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't bootstrap again).

Note 2: It is possible that (while there are multiple downgraded modules) this downgraded component and its parent component both belong to the same `NgModule`. In that case, we could have used the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are treating this case as if they belong to different `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor and trying to resolve `ComponentFactoryResolver` from either one will return the same instance. If there is a parent component, use its injector as parent injector. If this is a "top-level" Angular component, use the module injector.

```typescript
const finalParentInjector = parentInjector || moduleInjector !;

const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  const componentFactoryResolver: ComponentFactoryResolver = moduleInjector.get(ComponentFactoryResolver);
  const componentFactory: ComponentFactory<any> = componentFactoryResolver.resolveComponentFactory(info.component) !;

  if (!componentFactory) {
    throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
  }

  const injectorPromise = new ParentInjectorPromise(element);
  const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback);

  const projectableNodes = facade.compileContents();
  facade.createComponent(projectableNodes);
  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
  facade.setupOutputs();
  facade.registerCleanup();

  injectorPromise.resolve(facade.getInjector());

  if (ranAsync) {
    // If this is run async, it is possible that it is not run inside an digest and initial input values will not be detected.
    scope.$evalAsync(() => {});
  }
};
```

```typescript
const downgradeFn = !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
  if (!ngZone) {
    ngZone = pInjector.get(NgZone);
  }

  wrapCallback(() => doDowngrade(pInjector, mInjector))();
};
```

```typescript
SyncPromise.all([finalParentInjector, finalModuleInjector]).then([pInjector, mInjector] => {
  if (isNgUpgradeLite) {
    doDowngrade = (pInjector, mInjector) => {
      const doDowngradeFn = mInjector.get(NgZone) !;
      const ngZone = mInjector.get(NgZone) !;
      const projectableNodes = facade.compileContents();
      facade.createComponent(projectableNodes);
      facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
      facade.setupOutputs();
      facade.registerCleanup();
      injectorPromise.resolve(facade.getInjector());
      if (ranAsync) {
        // If this is run async, it is possible that it is not run inside an digest and initial input values will not be detected.
        scope.$evalAsync(() => {});
      }
    }
  }

  facade.registerCleanup();
};
```

ComponentFactoryResolver: ComponentFactoryResolver =

moduleInjector.get(ComponentFactoryResolver); const componentFactory: ComponentFactory<any> =

componentFactoryResolver.resolveComponentFactory(info.component) !;

if (!componentFactory) {
  throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
}

const injectorPromise = new ParentInjectorPromise(element);
const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback);
const projectableNodes = facade.compileContents();
facade.createComponent(projectableNodes);
facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
facade.setupOutputs();
facade.registerCleanup();
injectorPromise.resolve(facade.getInjector());
if (ranAsync) {
  // If this is run async, it is possible that it is not run inside an digest and initial input values will not be detected.
  scope.$evalAsync(() => {});
}
```

Synchronous promise-like object to wrap parent injectors, to preserve the synchronous nature of AngularJS's `$compile`.

```typescript
new SyncPromise<Injector>(function(resolve) {
  resolve(injectorPromise.resolve(facade.getInjector()));
});
```

```
DirectiveFactory = [SCOMPILE, SINJECTOR, SPARSE];
```

```typescript
private injectorKey: string = controllerKey(INJECTOR_KEY);
```

```typescript
Resolve the promise. 
super.resolve(injectorKey); 

```

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Open Source Used In MSX SD-WAN Service Pack 4.0.0 18680
```
LICENSE file at https://angular.io/license

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {IInjectorService} from '../../src/common/src/angular1';

// We have to do a little dance to get the ng1 injector into the module injector.
// We store the ng1 injector so that the provider in the module injector can access it
// Then we "get" the ng1 injector from the module injector, which triggers the provider to read the
// stored injector and release the reference to it.
let tempInjectorRef: IInjectorService = null;
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}
export function injectorFactory() {
  if (tempInjectorRef) {
    // clear the value to prevent memory leaks
    return tempInjectorRef;
  }
}

export function rootScopeFactory(injector) {
  return injector.get('$rootScope');
}

export function compileFactory(injector) {
  return injector.get('$compile');
}

export function parseFactory(injector) {
  return injector.get('$parse');
}

export function extendFactory(injector) {
  return injector.get('$viewContentLoaded');
}

export function moduleFactory(injector) {
  return injector.get('$module');
}

export function bootstrapFactory(injector) {
  return injector.get('$bootstrap');
}

export function moduleFactoryWithLazyRoutes(injector) {
  return injector.get('$moduleWithLazyRoutes');
}

export function ngModuleFactoryWithLazyRoutes(injector) {
  return injector.get('$ngModuleWithLazyRoutes');
}

export function rootScopeFactoryWithLazyRoutes(injector) {
  return injector.get('$rootScopeWithLazyRoutes');
}

export function compileFactoryWithLazyRoutes(injector) {
  return injector.get('$compileWithLazyRoutes');
}

export function parseFactoryWithLazyRoutes(injector) {
  return injector.get('$parseWithLazyRoutes');
}

export function extendFactoryWithLazyRoutes(injector) {
  return injector.get('$viewContentLoadedWithLazyRoutes');
}

export function moduleFactoryWithLazyRoutes(injector) {
  return injector.get('$moduleWithLazyRoutesWithLazyRoutes');
}

export function bootstrapFactoryWithLazyRoutes(injector) {
  return injector.get('$bootstrapWithLazyRoutesWithLazyRoutes');
}

export function moduleFactoryWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$moduleWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function bootstrapFactoryWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$bootstrapWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function rootScopeFactoryWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$rootScopeWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function compileFactoryWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$compileWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function parseFactoryWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$parseWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function extendFactoryWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$viewContentLoadedWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function moduleFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$moduleWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function bootstrapFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$bootstrapWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function rootScopeFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$rootScopeWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function compileFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$compileWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function parseFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$parseWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function extendFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$viewContentLoadedWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function moduleFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$moduleWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function bootstrapFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$bootstrapWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function rootScopeFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$rootScopeWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function compileFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$compileWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function parseFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$parseWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function extendFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$viewContentLoadedWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function moduleFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injector.get('$moduleWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes');
}

export function bootstrapFactoryWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutesWithLazyRoutes(injector) {
  return injecto
IInjectorService) {\n  return i.get('$parse');\n}\n
export const angular1Providers = [
  // We must use exported named functions for the ng2 factories to keep the compiler happy:\n  // > Metadata collected contains an error that will be reported at runtime:\n  // > Function calls are not supported.\n  // > Consider replacing the function or lambda with a reference to an exported function:\n  {provide: 'Sinjector', useFactory: injectorFactory, deps: []},\n  {provide: 'SrootScope', useFactory: rootScopeFactory, deps: ['Sinjector']},\n  {provide: 'Scompile', useFactory: compileFactory, deps: ['Sinjector']},\n  {provide: 'Sparse', useFactory: parseFactory, deps: ['Sinjector']},\n  /**\n   * Copyright Google Inc. All Rights Reserved.\n   *\n   * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n   */\n  //\n  //\n  // NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as\n  NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as IInjectorService);

NgAdapterInjector implements Injector {\n  constructor(private modInjector: Injector) {\n    // When Angular locate a service in the component injector tree, the not found value is set to\n    `'NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR'. In such a case we should not walk up to the module\n    // injector.\n    get(token: any, notFoundValue?: any): any {\n      if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {\n        return notFoundValue;\n      }\n      return this.modInjector.get(token, notFoundValue);\n    }\n  }\n}\n
/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\n
import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {INJECTOR, $INJECTOR, $PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction} from '../../src/common/src/util';

import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

let moduleUid = 0;

/**\n * @description\n * A helper function for creating an AngularJS module that can bootstrap an Angular module\n * "on-demand" (possibly lazily) when a \{@link downgradeComponent downgraded component\} needs to be\n * instantiated.\n *\n * Part of the \[upgrade/static\](api?query=upgrade/static) library for hybrid upgrade apps that\n * support AOT compilation.\n *\n * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having\n * to\n * pay the cost up-front. For example, you can have an AngularJS application that uses Angular for\n * specific routes and only instantiate the Angular modules if/when the user visits one of these\n * routes.\n *\n * The Angular module will be bootstrapped once (when requested for the first time) and the same\n * reference will be used from that point onwards.\n *\n * `downgradeModule()` requires either an `NgModuleFactory` or a function:\n *\n * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module\n *   using `platformBrowser`'s \{%link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory\}\n *\n * - `Function`: If you pass a function, it is expected to return a promise resolving to an\n *   `NgModuleRef`. The function is called with an array of extra `StaticProvider` Providers that are\n * expected to be available from the returned `NgModuleRef`'s `Injector`.\n *\n * `downgradeModule()` returns the name of the created AngularJS wrapper module. You can use it\n * to\n * declare a dependency in your main AngularJS module.\n *\n * @example\n * upgrade/static/ts/lite/module.ts region="basic-how-to"\n */

* For more details on how to use `downgradeModule()` see \n * [Upgrading for Performance](guide/upgrade-performance)\n *\n * @usageNotes\n *\n * Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to\n * build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be\n * available until the downgraded module has been bootstrapped, i.e. by instantiating a downgraded\n * component.\n *\n * You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application.\n *\n * Use one or the other.\n */
'UpgradeModule' that affect the behavior of hybrid applications:

1. Unlike 'UpgradeModule', 'downgradeModule()' does not bootstrap the main AngularJS module inside the NgZone Angular zone.

2. Unlike 'UpgradeModule', 'downgradeModule()' does not automatically run \$digest() when changes are detected in the Angular part of the application.

What this means is that applications using 'UpgradeModule' will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary. 'downgradeModule()', on the other side, does not try to tie the two change detection systems as tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change). This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed. For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

If you want some injectables to be shared among all downgraded modules, you can provide them as:

- 'StaticProvider's, when creating the 'PlatformRef' (e.g. via `platformBrowser' or)
- 'platformBrowserDynamic').

When using '@link PlatformRef#bootstrapmodule `bootstrapModule()`') or

each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated.

Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

You can manually trigger a change detection run in AngularJS using

```
[scope.$apply(...)]
```

or

```
[$rootScope.$digest()]
```

Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application. Each module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

### Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated.

Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

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```
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```

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Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application. Each module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

You can manually trigger a change detection run in AngularJS using

```
[scope.$apply(...)]
```

or

```
[$rootScope.$digest()]
```

Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application. Each module will be bo...
```javascript
$provide.constant('DOWNGRADED_MODULE_COUNT_KEY', getDowngradedModuleCount($injector) + 1);

function identity<T = any>(x: T): T {
  return x;
}

function notSupported(name: string, errorType: string) {
  throw new Error(`Only support single directive definition for: ${name}, errorType: ${errorType}`);
}

function isFunction<T, U>(property: T['$isFunction']?: boolean): property is U {
  return typeof property === 'function';
}

const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;

$httpBackend('GET', url, null, (status: number, response: string) => {
  if (status === 200) {
    resolve($templateCache.put(url, response));
  } else {
    reject(`GET component template from '${url}' returned '${status}: ${response}'`);
  }
});

notSupported('Directive', 'replacement');
notSupported('Directive', 'terminal');
notSupported('component', 'replace');
notSupported('component', 'endpoint');
notSupported('Element', 'endpoint');
notSupported('Element', 'replace');
notSupported('Directive', 'endpoint');
notSupported('Directive', 'replace');
notSupported('Directive', 'endpoint');
notSupported('Directive', 'replace');
```

---

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angularElement.cleanData(this.element.querySelectorAll('*'));

prepareTransclusion(): ILinkFn|undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = transclude.$extractChildNodes();
    const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
        // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
        // `$template` is empty. Since the transcluded content comes from Angular, not AngularJS, // there will be no transclusion scope here.
        // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
        if (scope.$destroy) {
            return cloneAttachFn !(Stemplate, scope);
        }
    }

    contentChildNodes.forEach(node => {
        if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
            node.nodeValue = '\u200C';
        }
    });

    return attachChildrenFn;
}

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);

    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
        const requiredControllersMap = requiredControllers as {
            [key: string]: IControllerInstance;
        };
        Object.keys(requiredControllersMap).forEach(key => {
            controllerInstance[key] = requiredControllersMap[key];
        });
    }

    return requiredControllers;
}

private compileHtml(html: string): ILinkFn {
    this.element.innerHTML = html;
    return this.$compile(this.element.childNodes);
}

private extractChildNodes(): Node[] {
    let childNode: Node|null;

    while (childNode = this.element.firstChild) {
        this.element.removeChild(childNode);
        childNodes.push(childNode);
    }

    return childNodes;
}

private getDirectiveRequire(): DirectiveRequireProperty {
    return this.directive.require || (this.directive.controller && this.directive.name) !;
}

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
    const directiveRequire = this.getDirectiveRequire();
    const requiredControllers = this.resolveRequire(directiveRequire);

    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
        const requiredControllersMap = requiredControllers as {
            [key: string]: IControllerInstance;
        };
        Object.keys(requiredControllersMap).forEach(key => {
            controllerInstance[key] = requiredControllersMap[key];
        });
    }

    return requiredControllers;
}

private extractChildNodes(): Node[] {
    let childNode: Node|null;

    while (childNode = this.element.firstChild) {
        this.element.removeChild(childNode);
        childNodes.push(childNode);
    }

    return childNodes;
}

}
require[key];

const match = value.match(REQUIRE_PREFIX_RE) !

const name = value.substring(match[0].length);

if (name) {
  require[key] = match[0] + key;
}

return require;


function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return isFunction(property) ? property(...args) : property !;
}

function isMap<T>(value: SingleOrListOrMap<T>): value is {

  function notSupported(name: string, feature: string) {
    throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
  }

  function getOrCall<T>(property: T | Function, ...args: any[]): T {
    return isFunction(property) ? property(...args) : property !;
  }

  function isMap<T>(value: SingleOrListOrMap<T>): value is {
    return value && !Array.isArray(value) && typeof value === 'object';
  }

  function notSupported(name: string, feature: string) {
    throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
  }

  export class UpgradeComponent implements OnInit, OnChanges, DoCheck, OnDestroy {
    private helper: UpgradeHelper;

    private $injector: IInjectorService;

    private element: Element;
    private $element: IAugmentedJQuery;
    private $componentScope: IScope;

    private directive: IDirective;
    private bindings: Bindings;

    // TODO(issue/24571): remove '!'.
    private controllerInstance !: IControllerInstance;
    // TODO(issue/24571): remove '!'.
    private bindingDestination !: IBindingDestination;

    // We will be instantiating the controller in the
The `ngOnInit` hook, when the `SimpleChanges` and `play them back!` later. TODO(issue/24571): remove `!`. private pendingChanges !: SimpleChanges | null; TODO(issue/24571): remove `!`. private unregisterDoCheckWatcher !: Function; **`SimpleChanges`**

* Create a new `UpgradeComponent` instance. You should not normally need to do this. Instead you should derive a new class from this one and call the super constructor * from the base class.

* **`The `elementRef` and `injector` parameters should be acquired from Angular by dependency injection into the base class constructor.**

* An constructor(private name: string, private elementRef: ElementRef, private injector: Injector) { this.helper = new UpgradeHelper(name, elementRef, injector); this.$injector = this.helper.$injector; this.element = this.helper.element; this.$element = this.helper.$element; this.directive = this.helper.directive; this.bindings = this.initializeBindings(this.directive); // We ask for the AngularJS scope from the Angular injector, since we will put the new component scope onto the new injector for each component

  const SparentScope = injector.get($SCOPE); // QUESTION 1: Should we create an isolated scope if the scope is only true? // QUESTION 2: Should we make the scope accessible through `Selelement.scope()/isolateScope()`?

  this.$componentScope = $parentScope.$new(!!this.directive.scope);

  this.initializeOutputs();

  // Instantiate controller

  this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);

  // Set up outputs

  const linkFn = this.helper.compileTemplate();

  // Instantiate controller

  this.controllerInstance.$onInit();

  // Hook: $onChanges

  if (this.controllerInstance && isFunction(this.controllerInstance.$onChanges)) {
    this.controllerInstance.$onChanges();
  } else if (bindToController) {
    throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`);
  }

  // Hook: $doCheck

  if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
    this.controllerInstance.$doCheck();
  }

  // Hook: $postLink

  if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
  }

  // OnDestroy

  if (isFunction(this.unregisterDoCheckWatcher)) {
    this.unregisterDoCheckWatcher();
  }

  this.helper.onDestroy(this.$componentScope, this.controllerInstance);
IDirective) {
    const btcIsObject = typeof directive.bindToController === 'object';
    if (btcIsObject && Object.keys(directive.scope).length) {
      throw new Error('Binding definitions on scope and controller at the same time is not supported. ');
    }

    const context = btcIsObject ? directive.bindToController : directive.scope;
    const bindings = new Bindings();

    if (typeof context == 'object') {
      Object.keys(context).forEach(propName => {
        const definition = context[propName];
        const bindingType = definition.charAt(0);


        switch (bindingType) {
          case '@':
            break;
          case '<':
            break;
          case '=':
            bindings.twoWayBoundProperties.push(propName);
            bindings.twoWayBoundLastValues.push(INITIAL_VALUE);
            bindings.propertyToOutputMap[propName] = propName + 'Change';
            break;
          case '&':
            bindings.expressionBoundProperties.push(propName);
            bindings.propertyToOutputMap[propName] = propName;
            break;
          default:
            let json = JSON.stringify(context);
            throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
        }
      });
    }

    return bindings;
  }

  private initializeOutputs() {
    // Initialize the outputs for `=` and `&` bindings
    bindings.twoWayBoundProperties.concat(bindings.expressionBoundProperties)
      .forEach(propName => {
        const outputName = bindings.propertyToOutputMap[propName];
        (this as any)[outputName] = new EventEmitter();
      });
  }

  private bindOutputs() {
    // Bind `&` bindings to the corresponding outputs
    bindings.expressionBoundProperties.forEach(propName => {
      const outputName = bindings.propertyToOutputMap[propName];
      const emitter = (this as any)[outputName];

      this.bindingDestination[propName] = (value: any) => emitter.emit(value);
    });
  }

  private forwardChanges(changes: SimpleChanges) {
    // Forward input changes to `bindingDestination`
    Object.keys(changes).forEach(
      propName => this.bindingDestination[propName] = changes[propName].currentValue);
    if (isFunction(this.bindingDestination.$onChanges)) {
      this.bindingDestination.$onChanges(changes);
    }
  }
}

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../../src/common/src/upgrade';
import {NgAdapterInjector} from './util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid application.
 *
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation
 *
 * ```ts

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import {UpgradeModule} from '@angular/upgrade/static';

See also the [@link UpgradeModule#examples examples] below.

### Mental Model

When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level. There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.

AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.

An AngularJS component can be `upgraded` to an Angular component. This is achieved by defining an Angular directive, which boots up the Angular component at its location in the DOM. See `UpgradeComponent`. An Angular component can be `downgraded` to an AngularJS component. This is achieved by defining an AngularJS directive, which boots up the Angular component at its location in the DOM. See `downgradeComponent`.

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.

Importing this `NgModule` will add providers for the core AngularJS services:

```typescript
import {UpgradeModule} from '@angular/upgrade/static';

@NgModule({
  providers: [angular1Providers]
})
export class UpgradeModule {
  public $injector: any /*angular.IInjectorService*/;
  public injector: Injector;

  constructor(
      injector: Injector,
      public ngZone: NgZone) {
    this.injector = new NgAdapterInjector(injector);
  }

  bootstrap() {
    this.$injector.get(UpgradeComponent).bootstrap();
    this.$injector.get(UpgradeModule).bootstrap();
    this.$injector.get(UpgradeModule).injector();
  }
}
```

### Examples

* Import the `UpgradeModule` into your top level `NgModule`.

```typescript
import {UpgradeModule} from '@angular/upgrade/static';

@NgModule({
  providers: [angular1Providers]
})
export class UpgradeModule {
  public $injector: any /*angular.IInjectorService*/;
  public injector: Injector;

  constructor(
      injector: Injector,
      public ngZone: NgZone) {
    this.injector = new NgAdapterInjector(injector);
  }

  bootstrap() {
    this.$injector.get(UpgradeComponent).bootstrap();
    this.$injector.get(UpgradeModule).bootstrap();
    this.$injector.get(UpgradeModule).injector();
  }
}
```

Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`.

```typescript
import {UpgradeModule} from '@angular/upgrade/static';

@NgModule({
  providers: [angular1Providers]
})
export class UpgradeModule {
  public $injector: any /*angular.IInjectorService*/;
  public injector: Injector;

  constructor(
      injector: Injector,
      public ngZone: NgZone) {
    this.injector = new NgAdapterInjector(injector);
  }

  bootstrap() {
    this.$injector.get(UpgradeComponent).bootstrap();
    this.$injector.get(UpgradeModule).bootstrap();
    this.$injector.get(UpgradeModule).injector();
  }
}
```
application from this NgModule
   * @param element the element on which to bootstrap the AngularJS
application
   * @param [modules] the AngularJS modules to bootstrap for this application
   * @param [config] optional extra AngularJS bootstrap configuration
   * @param bootstrap(element: Element, modules: string[],
config?: angular.IAngularBootstrapConfig) {<
const INIT_MODULE_NAME =
AngularModule(INIT_MODULE_NAME, []).constant(UPGRADE_APP_TYPE_KEY,
UpgradeAppType.Static).
.value(INJECTOR_KEY, this.injector).factory(LAZY_MODULE_REF,
[INJECTOR_KEY, (injector: Injector) => ({ injector } as
LazyModuleRef)).
.config([SPROVIDE, SINJECTOR]).
($provide: IProvideService,
$injector: InjectorService) => {<
  if ($injector.has($TESTABILITY)) {
    const originalWhenStable =
    injector.get(Testability).whenStable();
  } else {
    ng2Testability.whenStable(() => {
      testabilityDelegate.whenStable(() => {
        angularElement(element).data
(angular.module(name)).runOutsideAngular();
      });
    });
  }

$provide.decorator($SINTERVAL, [SDELEGATE, (intervalDelegate:
IntervalService) => {
  this.ngZone.runOutsideAngular(() => {
    this.ngZone.onMicrotaskEmpty.subscribe(() => {
      if ($rootScope.$$phase) {
        if (isDevMode()) {
          console.warn('A digest was triggered while one
            was already in progress. This may mean that something is
            triggering digests outside the Angular zone.');
        }
      }
      return $rootScope.$evalAsync();
    });
    return $rootScope.$digest();
  });
});

(newWhenStable.bind(testabilityDelegate, callback))();

// Wrap the $interval service so that setInterval is called outside NgZone.
// but the callback is still invoked within it. This is so that $interval
// won't block stability, which preserves the behavior from AngularJS.
let wrappedInterval =
  this.ngZone.runOutsideAngular(() => {
    return intervalDelegate((...args: any[]) => {
      if (isDevMode()) {
        console.warn('A digest was triggered while one
          was already in progress. This may mean that something is
          triggering digests outside the Angular zone.');
      }
      return $rootScope.$evalAsync();
    });
  });

$provide.decorator('$interval', [SDELEGATE, (intervalDelegate:
IntervalService) => {
  return wrappedInterval;
});

// Put the injector on
// the DOM, so that it can be "required"
angularElement(element).data
(!controllerKey(INJECTOR.KEY), this.injector); // Wire up the ngI rootScope
to run a digest cycle whenever the zone settles
// We need to do this in the next tick so that we don't prevent the bootstrap
// stabilizing
setTimeout(() => {
  const $rootScope = $injector.get('$rootScope');
  if ($rootScope.$$phase) {
    if (isDevMode()) {
      console.warn('A digest was triggered while one
        was already in progress. This may mean that something is
        triggering digests outside the Angular zone.');
    }
  }
  return $rootScope.$evalAsync();
});

return $rootScope.$digest();
});

$rootScope.$on('destroy', () => { wrappedInterval.cancel();
return wrappedInterval;
});

// Kick off the ngI rootScope.$evalAsync();
// if it's in the
// same vm turn.
setTimeout(() => {
  this.ngZone.run(() => fn(...args)); });

return intervalDelegate(...args: any[]);
});

this.ngZone.runOutsideAngular();

(function (fn, delay, count?, invokeApply?,...pass: any[]) {
  return

windowAngular = (window as any).angular.
resumeBootstrap = undefined;

windowAngular.resumeBootstrap = undefined;

// Bootstrap the AngularJS application inside our zone
this.ngZone.run(() => {
  bootstrap(element, [upgradeModule.name], config); });

// Patch resumeBootstrap() to run inside the ngZone

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if (windowAngular.resumeBootstrap) {
  const originalResumeBootstrap: () => void =
    windowAngular.resumeBootstrap;
  const ngZone = this.ngZone;
  windowAngular.resumeBootstrap =
    function() {
      let args = arguments;
      windowAngular.resumeBootstrap.apply(this, args);
    }
}

export * from './index';

export {angular1Providers as
 ɵangular_packages_upgrade_static_static_e,compileFactory as
 ɵangular_packages_upgrade_static_static_c,injectorFactory as
 ɵangular_packages_upgrade_static_static_a,parseFactory as
 ɵangular_packages_upgrade_static_static_d,rootScopeFactory as ɵangular_packages_upgrade_static_static_b} from
  './src/angular1_providers';
No license file was found, but licenses were detected in source scan.

```javascript
/*
 *****************************************************************************
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 http://www.apache.org/licenses/LICENSE-2.0

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 ***************************************************************************** */

global Reflect, Promise */

var extendStatics = function(d, b) {
    extendStatics = Object.setPrototypeOf ||
        ({} instanceof Array && function (d, b) { d.__proto__ = b; }) ||
        function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
    return extendStatics(d, b);
};

export function __extends(d, b) {
    extendStatics(d, b);
    function __() { this.constructor = d; }
    d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
}

export var __assign = function() {

```
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IAngularBootstrapConfig) =>
  IInjectorService, 
module: (prefix: string, dependencies?: string[]) =>
  IModule,
  element: { 
    (e: string | Element | Document | IAugmentedjQuery): 
    IAugmentedjQuery, 
    cleanData: (nodes: Node[] | NodeList) => void
  }, 
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => 
  IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService,
  module: (prefix: string, dependencies?: string[]) =>
  IModule,
  element: {
    (e: string | Element | Document | IAugmentedjQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => 
  IInjectorService,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg,
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules,
  config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug

export const module_: typeof angular.module = (prefix,
  dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
  angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const 
resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const 
getTestability: typeof angular.getTestability = e => angular.getTestability(e);

/**
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 * found in the LICENSE file at https://angular.io/license
 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$UpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

export class AngularTestingModule {
  constructor(i: Injector) { injector = i; }
}

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS
 * services.
 * 
 * This function returns an ‘NgModule’ decorated class that is configured to
 * wire up the Angular
 * and AngularJS injectors without the need to actually bootstrap a hybrid application.
 * 
 * This makes it simpler and faster to unit test services.
 * 
 * @param providers providers of the new NgModule
 * 
 * @return NgModule with angular and AngularJS
 */

export function NgModule(providers: NgModule[] = []): NgModule {
  return new NgModule({
    providers: providers
  });
}
configuring the `TestBed`. In the following code snippet, we are configuring the TestBed with two imports. The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the AngularJS part. Once this is done we can get hold of services via the Angular `Injector` as normal. Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `Sinjector`. In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`. This helps for testing services not Components. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information. The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

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The helper sets up global variables to hold the shared Angular and AngularJS injectors. * Only call this helper once per spec. * * Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. * * The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Only call this helper once per spec. * Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. * Here is the example application and its unit tests that use `createAngularTestingModule` * and `createAngularJSTestingModule`.

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

Only call this helper once per spec. * Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module_('$$angularJSTestingModule', [])
      .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
      .factory(INJECTOR_KEY, $injector => TestBed.configureTestingModule({
    imports: angularModules,
    providers: [{provide: $INJECTOR, useValue: $injector}]
  });
  return TestBed.inject(Injector);
}
```
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```
/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

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 * found in the LICENSE file at https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular` typings extend the global `Function` interface with
  // `$inject? : string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: Function extends {$inject?: string[]}? Ng1Token[] : ReadonlyArray<Ng1Token>;
}

export type IInjectable = (Ng1Token | Function)[ ] | IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[ ] | { [key: string]: T };

export interface IModule {
  name: string;
  requires: (string|IInjectable)[ ];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: IInjectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: IInjectable): IModule;
}

export interface IAngularBootstrapConfig { strictDi?: boolean;
```
Object

@ngInject

function ng(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const ngElement: typeof angular.element = (() => ng()) as any;
ngElement.cleanData = ng;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) => IInjectorService,
  module: (prefix: string, dependencies?: string[]) => IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string|IInjectable>, strictDI?: boolean) => IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService,
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) => angular.bootstrap(e, modules, config);

export const module_: typeof angular.module = (prefix, dependencies?) => angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = angular.element.cleanData;

export const injector: typeof angular.injector = angular.injector;

export const resumeBootstrap: typeof angular.resumeBootstrap = angular.resumeBootstrap;

export const getTestability: typeof angular.getTestability = angular.getTestability;

// Do not declare as `module` to avoid webpack bug
// (see https://github.com/angular/angular/issues/30050).
export const module = angular.module;

/**
 * A `PropertyBinding` represents a mapping between a property name and an attribute name. It is parsed from a string of the form `"prop:attr"` or simply `"propAndAttr"` where the property and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
}
TODO(issue/24571): remove '!

bindonAttr: string;
constructor(public prop: string, public attr: string) {
  this.parseBinding();
  private parseBinding() {
    this.bracketAttr = '{$this.attr}';
    this.parenAttr = '{\$this.attr}';
    this.const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = 'on' + this.capitalAttr;
    this.bindAttr = bindS{capitalAttr};
    this.bindonAttr = bindonS{capitalAttr};
  }
  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `\(${this.attr}\)`;
    this.bracketParenAttr = `\[${\$(this.attr)}\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on${capitalAttr}`;
    this.bindAttr = `bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
    this.parseBinding();
  }
}

/**
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 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, Type} from '@angular/core';
import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):[\-_]/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[\-_]/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return `$${name}Controller`;
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_,
        letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name ||
      type.toString().split('\n')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
      $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
      0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
      $injector.get(UPGRADE_APP_TYPE_KEY) :
      UpgradeAppType.None;
}

export const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  // `ngUpgrade` app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
  // `ngUpgrade`).
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`
  Static,

  // App using @angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade`-lite ).
  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the
 * 'ControlValueAccessor' interface needed for
AngularJS `ng-model`\n
```typescript
open Source Used In MSX SD-WAN Service Pack 4.0.0

const supportsNgModel = (component: any): boolean => {
  return typeof component.writeValue === 'function' &&
        typeof component.registerOnChange === 'function';
}

const hookupNgModel = (ngModel: INgModelController, component: any): void => {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue);
    };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setViewValue.bind(ngModel));
    }
  }
}

// Test two values for strict equality, accounting for the fact that NaN !== NaN.
export const strictEquals = (val1: any, val2: any): boolean => {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}
```

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Initially, both `$observe()` and `$watch()` will call this function.

```javascript
this.updateInput(input.prop, prevValue, currValue);
```

if (prevValue === INITIAL_VALUE)

```javascript
prevValue = currValue;
```

let unwatch: Function|null = this.componentScope.$watch(expr, watchFn);

```javascript
if (isAssignment) {
  setter!(this.scope, v);
} else {
  getter(this.scope, {'$event': v})
};
```

let destroyed = false;

if (isAssignment && !setter) {
  throw new Error(`Expression '${expr}' is not assignable!`);
}

```javascript
const emitter = this.component[input.prop] as EventEmitter<any>;
```

Otherwise, the view change detector will be marked for check.

```javascript
if (manuallyAttachView || !propagateDigest) {
  let unwatch: Function|null = this.componentScope.$watch(() => {
    unwatch !();
    unwatch = null;

    const appRef =
      this.parentInjector.get<ApplicationRef>(ApplicationRef);

    appRef.attachView(this.componentRef.hostView);
  });
}
```

The component factory type prototype is set to the component's type prototype.

```javascript
this.implementsOnChanges = !!(<OnChanges>prototype).ngOnChanges;
```

```javascript
this.componentScope.$watch(this.wrapCallback(detectChanges));
```

```javascript
if (propagateDigest) {
  this.componentScope.$watch(() => this.componentRef); // Invoke 'ngOnChanges()' and Change Detection
  detectChanges();
}
```

```javascript
if (this.constructChanges) {
  this.componentScope.$watch(() => this.componentRef); // If not opted out of propagating digests, invoke change detection
  this.componentScope.$watch(() => this.componentRef); // If not opted out of propagating digests, invoke change detection
}
```

```javascript
this.$parse(expr);
```

if (isAssignment) {
  setter!(this.scope, v);
} else {
  getter(this.scope, {'$event': v})
};
```

```javascript
if (isAssignment && !setter) {
  throw new Error(`Expression '${expr}' is not assignable!`);
}
```

```javascript
const emitter = this.component[input.prop] as EventEmitter<any>;
```

```javascript
if (isAssignment && !setter) {
  throw new Error(`Expression '${expr}' is not assignable!`);
}
```

```javascript
const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
```

```javascript
this.registerCleanup();
```

```javascript
this.element.on('$destroy', () => this.componentScope.$destroy());
```

```javascript
this.$parse(expr);
```

```javascript
let unwatch: Function|null = this.componentScope.$watch(expr, watchFn);
```

```javascript
if (isAssignment) {
  setter!(this.scope, v);
} else {
  getter(this.scope, {'$event': v})
};
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```

```javascript
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  setter!(this.scope, v);
} else {
  getter(this.scope, {'$event': v})
};
```

```javascript
if (isAssignment && !setter) {
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}
```

```javascript
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```

```javascript
this.$parse(expr);
```

```javascript
if (isAssignment) {
  setter!(this.scope, v);
} else {
  getter(this.scope, {'$event': v})
};
```

```javascript
if (isAssignment && !setter) {
  throw new Error(`Expression '${expr}' is not assignable!`);
}
```

```javascript
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```

```javascript
this.$parse(expr);
```

```javascript
if (isAssignment) {
  setter!(this.scope, v);
} else {
  getter(this.scope, {'$event': v})
};
```

```javascript
if (isAssignment && !setter) {
  throw new Error(`Expression '${expr}' is not assignable!`);
}
```

```javascript
const emitter = this.component[input.prop] as EventEmitter<any>;
```

```javascript
this.$parse(expr);
```

```javascript
if (isAssignment) {
  setter!(this.scope, v);
} else {
  getter(this.scope, {'$event': v})
};
```
destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
        }\n      }\n    });
  }

  getInjector(): Injector { return this.componentRef.injector; }

  private updateInput(prop: string, prevValue: any, currValue: any) {
    if (this.implementsOnChanges) {
      this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
    }

    this.inputChangeCount++;
    this.component[prop] = currValue;
  }

  groupProjectableNodes() {
    let ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents !());
  }

  /**
   * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
   */
  export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[][]) {
    const projectableNodes: Node[][] = [];
    let wildcardNgContentIndex: number;

    for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
      projectableNodes[i] = [];
      for (let j = 0, jj = nodes.length; j < jj; ++j) {
        const node = nodes[j];
        const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
        if (ngContentIndex !== null) {
          projectableNodes[ngContentIndex].push(node);  
        }
      }
    }

    return projectableNodes;
  }

  /**
   * Find the index of the current ngContent in the selector.
   */
  export function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
    const ngContentIndices: number[] = [];
    let wildcardNgContentIndex: number = -1;

    for (let i = 0; i < ngContentSelectors.length; i++) {
      const selector = ngContentSelectors[i];
      if (selector === '*') {
        wildcardNgContentIndex = i;
      } else {
        if (matchesSelector(element, selector)) {
          ngContentIndices.push(i);
        }
      }
    }

    ngContentIndices.sort();

    if (wildcardNgContentIndex !== -1) {
      ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
  }

  /**
   * Synchronous, promise-like object.
   */
  export class SyncPromise<T> {
    protected value: T|undefined;
    private resolved = false;
    private callbacks: ((value: T) => unknown)[] = [];

    static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
      const aggrPromise = new SyncPromise<T[]>();

      let resolvedCount = 0;
      const results: T[] = [];
      const resolve = (idx: number, value: T) => {
        results[idx] = value;
        if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
      };

      valuesOrPromises.forEach((p, idx) => {
        if (isThenable(p)) {
          p.then(v => resolve(idx, v));
        } else {
          resolve(idx, p);
        }
      });

      return aggrPromise;
    }

    resolve(value: T): void {
      // Do nothing, if already resolved.
      if (this.resolved) return;
      this.value = value;
      this.resolved = true;

      // Run the queued callbacks.
      this.callbacks.forEach(callback => callback(value));
      this.callbacks.length = 0;
    }

    then(callback: (value: T) => unknown): void {
      if (this.resolved) {
        callback(this.value !);
      } else {
        this.callbacks.push(callback);
      }
    }
  }

  /**
   * @license
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   *
   * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
   */
  import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

  import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
  import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
  import {DowngradeComponentAdapter} from './downgrade_component_adapter';
  import {SyncPromise, Thenable} from './promise_util';
  import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getUpgradeAppType, getUpgradeAppType, validateInjectionKey} from './util';

allows an Angular component to be used from AngularJS.

Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation.

This helper function returns a factory function to be used for registering an AngularJS wrapper directive for `downgrading` an Angular component. It needs to be made available in AngularJS templates.

We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive) that will make this Angular component available inside AngularJS templates.

The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the `downgraded` component.

For more details and examples on how to downgrade Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).

**Parameters**

- `info` contains information about the Component that is being downgraded:
  - `component: Type<any>`: The type of the Component that will be downgraded
  - `downgradedModule?: string`: The name of the downgraded module (if any) that the component belongs to, as returned by a call to `downgradeModule()`.
  - `propagateDigest?: boolean`: Whether to perform `ChangeDetectorRef#detectChanges` on every change detection on the component.

**Returns**

A factory function that can be used to register the component in an AngularJS module.

**Public API**

```typescript
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string;
  propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
    // When using `downgradeModule()`, we need to handle certain things specially. For example...
    // - We always need to attach the component view to the `ApplicationRef` for it to be dirty-checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the Angular zone.
    // - NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run in the Angular zone.
    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
    const NgZone.isInAngularZone() ? cb() : ngZone.run(cb);

    // When downgrading multiple modules, special handling is needed wrt injectors.
    const hasMultipleDowngradedModules =
      isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);
    if (!parentInjector || hasMultipleDowngradedModules) {
      const downgradedModule = info.downgradedModule
        || ''; const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;
      validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);
      const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
      const lazyModuleInjector = lazyModuleRef.moduleInjector =
        (getDowngradedModuleCount($injector) > 1)
          ? ($injector.get(getTypeRef('<moduleInjectorLink>')) as ModuleInjectorLink[0]
            && lazyModuleRef.moduleInjector.moduleInjectorCount)
          : undefined;
      lazyModuleRef.moduleInjector = lazyModuleInjector;
      lazyModuleRef.la
    }
```
There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be the same instance, but that is irrelevant). `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be on the same tree as the `NgModule` that declares this downgraded component. `finalParentInjector` is used for all other injection purposes. (Note that Angular knows to only traverse the component-tree part of that injector, when looking for an injectable and then switch to the module injector.)

There are basically three cases:

- If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`. If there is a parent component (and thus a `parentInjector`) and we are sure that it belongs to the same `NgModule` as this downgraded component (e.g. because there is only one downgraded module, we use `parentInjector` as both `finalModuleInjector` and `finalParentInjector`), but (for simplicity) we are treating this case as if they belong to different `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor and trying to resolve `ComponentFactoryResolver` from either one will return the same instance. If there is a parent component, its injector as parent injector. If this is a "top-level" Angular component, use the module injector and `finalParentInjector = parentInjector || moduleInjector` If this is a "top-level" Angular component or the parent component may belong to a different `NgModule`, use the module injector for module-specific dependencies. If there is a parent component that belongs to the same `NgModule`, use its injector and `finalModuleInjector = moduleInjector || parentInjector` const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
  // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this component belongs to.
  const componentFactoryResolver: ComponentFactoryResolver = moduleInjector.get(ComponentFactoryResolver);

  const componentFactory: ComponentFactory<any> = componentFactoryResolver.resolveComponentFactory(info.component) !;

  if (!componentFactory) {
    throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
  }

  const injectorPromise = new ParentInjectorPromise(element);
  const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback);

  const projectableNodes = facade.compileContents();

  facade.createComponent(projectableNodes);

  facade.setupInputs(isNgUpgradeLite, info.propagateDigest);

  facade.setupOutputs();

  injectorPromise.resolve(facade.getInjector());

  if (ranAsync) {
    // If this is run async, it is possible that it is not run inside a digest and initial input values will not be detected.
    scope.$evalAsync(() => {});
  }

  return doDowngrade = (injector: Injector, moduleInjector: Injector) => {
    // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` associated with this component.
    const componentFactoryResolver = injector.get(ComponentFactoryResolver);

    const componentFactory = componentFactoryResolver.resolveComponentFactory(info.component) !;

    if (!componentFactory) {
      throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
    }

    const injectorPromise = new ParentInjectorPromise(element);

    // Setup the component factory.
    const componentFactory = componentFactoryResolver.resolveComponentFactory(info.component) !;

    // Setup the injector.
    injectorPromise.resolve(componentFactory.createInjector(element));

    // Setup the parent injector.
    parentInjector = injectorPromise.catch(injectorPromise => injectorPromise);
synchronous nature of AngularJS's `$compile`.

```typescript
class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY);

  constructor(private element: IAugmentedJQuery) {
    super();
    // Store the promise on the element.
    element.data !(this.injectorKey, this);

    resolve(injector: Injector): void {
      // Store the real injector on the element.
      this.element.data !(this.injectorKey, injector);

      // Release the element to prevent memory leaks.
      this.element = null !;

      // Resolve the promise.
      super.resolve(injector);
    }
  }
}
```

The helper function returns a factory function that provides access to the Angular service identified by the `token` parameter.

```typescript
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function ($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];

  return factory;
}
```

This helper function returns a factory function that provides access to the Angular service identified by the `token` parameter.

```typescript
const REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

// Interfaces
export interface IBindingDestination {
```

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to prevent `cloneAttachFn` from throwing.

```typescript
scope = scope || {$destroy: () => undefined};
return cloneAttachFn (!(template, scope));
```

```typescript
let template = contentChildNodes;

if (typeof transclude !== 'object') {
  template = [];

  const slotMap = Object.create(null);
  const filledSlots = Object.create(null);

  // Parse the element selectors.

  Object.keys(transclude).forEach(slotName => {
    let selector = transclude[slotName];
    const optional = selector.charAt(0) === '?';
    selector = optional ? selector.substring(1) : selector;

    slotMap[selector] = slotName;
    slots[slotName] = null;
  });

  // Add the matching elements into their slot.

  contentChildNodes.forEach(node => {
    const slotName = slotMap[direc
const elem = startOnParent ? this.$element.parent() : this.$element;

elem.inheritedData indifferenceOf([ctrlKey]) : elem.data indifferenceOf([ctrlKey]) ?: throw new Error('Unable to find required $[require] in upgraded directive $[this.name].')

else { throw new Error('Unrecognized require syntax on upgraded directive $[this.name]: $[require]'); }

return value;

if (!value && !isOptional) {
  throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
}

return value;

function getOrCall<T>(property: T | Function, ...args: any[]) {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for typeof T === 'object'.

return isFunction(property) ? property(...) : property;

const context = context || this.directive.bindToController |

Object.keys(context).forEach(propName => {

  const definition = context[propName];
  const bindingType = definition.charAt(0);
  const bindingOptions = definition.charAt(1);
  const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;

  switch (bindingType) {
    case '@':
    case '<':
      this.inputs.push(attrName);
      this.inputsRename.push(`${attrName}: ${attrName}`);
      this.propertyMap[attrName] = propName;
      break;
    case '=':
      this.inputs.push(attrName);
      this.inputsRename.push(`${attrName}: ${attrName}`);
      this.propertyMap[attrName] = propName;
      this.outputs.push(attrName);
      this.outputsRename.push(`${attrName}Change`);
      this.propertyMap[attrName] = propName;
      this.checkProperties.push(propName);
      this.propertyOutputs.push(attrName);
      break;
    case '&':
      this.outputs.push(attrName);
      this.outputsRename.push(`${attrName}: ${attrName}`);
      this.propertyMap[attrName] = propName;
      break;
    default:
      let json =...

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JSON.stringify(context);
throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.

An static resolve

exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder},

$injector: IInjectorService): Promise<string[]>

{ const promises = Object.keys(exportedComponents).map(name => 

const exportedComponent = exportedComponents[name];

exportedComponent.directive = UpgradeHelper.getDirective($injector, name);

exportedComponent.extractBindings();

return Promise

.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))

.then(template =>

exportedComponent.template = template);

return Promise.all(promises);

}

}

class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {

private controllerInstance: IControllerInstance|null = null;

destinationObj: IBindingDestination|null = null;

checkLastValues: any[] = [];

directive: IDirective;

element: Element;

$element: any = null;

componentScope: IScope;

constructor(

private helper: UpgradeHelper, scope: IScope, private template: string,

private inputs: string[], private outputs: string[], private propOuts: string[], private checkProperties: string[], private propertyMap: {[key: string]: string}) {

this.directive = helper.directive;

element = helper.element;

this.componentScope = scope.$new(!!this.directive.scope);

const controllerType = this.directive.controller;

if (this.directive.bindToController && controllerType) {

this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);

}

this.destinationObj = this.controllerInstance;

for (let i = 0; i < inputs.length; i++) {

(this as any)[inputs[i]] = null;

}

for (let j = 0; j < outputs.length; j++) {

this.checkLastValues.push(INITIAL_VALUE);

}

checkProperties.forEach((propName, i) => {

const value = this.destinationObj[propName];

const last = this.checkLastValues[i];

if (!strictEquals(last, value)) {

const eventEmitter = (this as any)[outputs[i]] = new EventEmitter<any>();

if (this.propOuts.indexOf(outputs[i]) === -1) {

eventEmitter.emit(last);

}

}

}

}

ngOnInit() {

const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();

const linkFn = this.helper.compileTemplate(this.template);

this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);

this.destinationObj = this.controllerInstance;

if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {

this.controllerInstance.$onInit();

}

}

ngOnChanges(changes: SimpleChanges) {

const ng1Changes: any = {};

Object.keys(changes).forEach(name => {

const change: SimpleChange = changes[name];

this.setComponentProperty(name, change.currentValue);

ng1Changes[this.propertyMap[name]] = change;

}

if (isFunction(this.destinationObj.$onChanges)) {

this.destinationObj.$onChanges(ng1Changes);

}

}

ngDoCheck() {

const destinationObj = this.destinationObj;

const lastValues = this.checkLastValues;

const checkProperties = this.checkProperties;

const propOuts = this.propOuts;

checkProperties.forEach((propName, i) => {

const value = destinationObj[propName];

const last = lastValues[i];

if (!strictEquals(last, value)) {

const eventEmitter = EventEmmitter<any>();

if (this as any)[propOuts[i]] = this.eventEmitter.emit(last);

}

}

if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {

this.controllerInstance.$doCheck();

}

}

ngOnDestroy() {

this.helper.onDestroy(this.componentScope, this.controllerInstance);

}

}
setComponentProperty(name: string, value: any) {\n this.destinationObj ![this.propertyMap[name]] = value;\n
}\n}\n","/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nimport {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability,
Type, isDevMode, resolveForwardRef} from '@angular/core';\nimport {platformBrowserDynamic} from
'@angular/platform-browser-dynamic';\n\nimport {IAngularBootstrapConfig, IAugmentedJQuery, IInjectorService,
IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_
as angularModule} from '../../common/src/angular1';\nimport {$$TESTABILITY, $COMPILE, $INJECTOR,
$ROOT_SCOPE, COMPILER_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY,
UPGRADE_APP_TYPE_KEY} from '../../common/src/constants';\nimport {downgradeComponent} from
'../../common/src/downgrade_component';\nimport {downgradeInjectable} from
'../../common/src/downgrade_injectable';\nimport {Deferred, LazyModuleRef, UpgradeAppType, controllerKey,
onError} from '../../common/src/util';\n\nimport {UpgradeNg1ComponentAdapterBuilder} from
'./upgrade_ng1_adapter';\n\nlet upgradeCount: number = 0;\n\n/**\n * Use `UpgradeAdapter` to allow AngularJS
and Angular to coexist in a single application.\n *\n * The `UpgradeAdapter` allows:\n * 1. creation of Angular
component from AngularJS component directive\n * (See [UpgradeAdapter#upgradeNg1Component()])\n * 2.
creation of AngularJS directive from Angular component.\n * (See
[UpgradeAdapter#downgradeNg2Component()])\n * 3. Bootstrapping of a hybrid Angular application which
contains both of the frameworks\n * coexisting in a single application.\n *\n * @usageNotes\n * ### Mental
Model\n *\n * When reasoning about how a hybrid application works it is useful to have a mental model which\n *
describes what is happening and explains what is happening at the lowest level.\n *\n * 1. There are two independent
frameworks running in a single application, each framework treats\n * the other as a black box.\n * 2. Each DOM
element on the page is owned exactly by one framework. Whichever framework\n * instantiated the element is the
owner. Each framework only updates/interacts with its own\n * DOM elements and ignores others.\n * 3.
AngularJS directives always execute inside AngularJS framework codebase regardless of\n * where they are
instantiated.\n * 4. Angular components always execute inside Angular framework codebase regardless of\n *
where they are instantiated.\n * 5. An AngularJS component can be upgraded to an Angular component. This creates
an\n * Angular directive, which bootstraps the AngularJS component directive in that location.\n * 6. An Angular
component can be downgraded to an AngularJS component directive. This creates\n * an AngularJS directive,
which bootstraps the Angular component in that location.\n * 7. Whenever an adapter component is instantiated the
host element is owned by the framework\n * doing the instantiation. The other framework then instantiates and
owns the view for that\n * component. This implies that component bindings will always follow the semantics of
the\n * instantiation framework. The syntax is always that of Angular syntax.\n * 8. AngularJS is always
bootstrapped first and owns the bottom most view.\n * 9. The new application is running in Angular zone, and
therefore it no longer needs calls to\n * `$apply()`.\n *\n * ### Example\n *\n * ```\n * const adapter = new
UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);\n * const module =
angular.module('myExample', []);\n * module.directive('ng2Comp',
adapter.downgradeNg2Component(Ng2Component));\n *\n * module.directive('ng1Hello', function() {\n * return
{\n *
scope: { title: '=' },\n *
template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'\n * };\n * });\n
*\n *\n * @Component({\n * selector: 'ng2-comp',\n * inputs: ['name'],\n * template: 'ng2[<ng1-hello
[title]=\"name\">transclude</ng1-hello>](<ng-content></ng-content>)',\n * directives:\n * })\n * class
Ng2Component {\n * }\n *\n * @NgModule({\n * declarations: [Ng2Component,
adapter.upgradeNg1Component('ng1Hello')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n *\n * document.body.innerHTML = '<ng2-comp name=\"World\">project</ng2-comp>';\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *
expect(document.body.textContent).toEqual(\n *
\"ng2[ng1[Hello World!](transclude)](project)\");\n * });\n *\n
* ```\n *\n * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports\n * [Ahead-ofTime compilation](guide/aot-compiler).\n * @publicApi\n */\nexport class UpgradeAdapter {\n private idPrefix:

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string = 'NG2_UPGRADE_${upgradeCount++}';
private downgradedComponents: Type<any>[] = [];

/**
 * Provides a map of ng1 components that need to be upgraded to ng2. We can't upgrade
 * until ng1 injector is bootstrapped.
 */
private ng1ComponentsToBeUpgraded: 
  {[name: string]: UpgradeNg1ComponentAdapterBuilder} = 
  {};

private updatedProviders: StaticProvider[] = 
// TODO(issue/24571): remove !
private ngZone !: NgZone;
private ng1Module !: IModule;
private moduleRef: NgModuleRef<any>|null = null;
private ng2BootstrapDeferred !: Deferred<IInjectorService>;

constructor(private ng2AppModule: Type<any>, private compilerOptions?: CompilerOptions) {
  if (!ng2AppModule) {
    throw new Error('UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');
  }
}

/**
 * Allows Angular Component to be used from AngularJS.
 * Use `downgradeNg2Component` to create an AngularJS Directive Definition Factory from ng1 * Angular Component. The adapter will bootstrap Angular component from
 * AngularJS template.
 * 
 * @usageNotes
 * ### Mental Model
 * 1. The component is instantiated by being listed in AngularJS template. This means that the
 * host element is controlled by AngularJS, but the component's view will be controlled by Angular.
 * 2. Even though the component is instantiated in AngularJS, it will be using Angular syntax. This has to be done, this way because we must
 * follow Angular components do not declare how the attributes should be interpreted.
 * 3. `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component
 * by way of the 'ControlValueAccessor' interface from @angular/forms. Only components that implement this interface are eligible.
 * 
 * ### Supported Features
 * - Attribute: `<comp name="World">`
 * - Interpolation: `{{comp greeting="Hello \{name\}"}}`
 * - Event: `\{close\}=\{doSomething\}`
 * - Content projection: yes
 * - `const module = angular.module(myExample', []).module.directive('greet',
 *   adapter.downgradeNg2Component(Greeter))`;

 /**
 * Allows AngularJS Component to be used from Angular.
 * Use `upgradeNg1Component` to create an Angular component from AngularJS Directive Definition Factory
 * AngularJS template.
 * 
 * @usageNotes
 * ### Mental Model
 * 1. The component is instantiated by being listed in Angular template. This means that the
 * host element is controlled by AngularJS.
 * 
 * ### Supported Features
 * - Attribute: `<comp name="World">`
 * - Interpolation: `{{comp greeting="Hello \{name\}"}}`
 * - Event: `\{close\}=\{doSomething\}`
 * - Content projection: yes
 * - `const module = angular.module(myExample', []).module.directive('greet',
 *   adapter.upgradeNg1Component(Greeter))`;

 /**
 * Allows AngularJS Component to be used from Angular.
 * Use `upgradeNg1Component` to create an Angular component from AngularJS Component.
 * The adapter will bootstrap AngularJS component from
 * AngularJS template.
 * 
 * @usageNotes
 * ### Mental Model
 * 1. The component is instantiated by being listed in Angular template. This means that the
 * host element is controlled by AngularJS.
 *
UpgradeAdapter(forwardRef(() => MyNg2Module));

* const module = angular.module('myExample', []);

* module.directive('greet', function() {
  * return {
    * scope: {
      * salutation: '=',
    * name: '='
    * },
    * template: '
      {{salutation}} {{name}}! - <span ng-transclude></span>
    * }
  * })

* module.directive('ng2', adapter downgradeNg2Component(Ng2Component));

* @Component({
  * selector: 'ng2',
  * template: 'ng2 template: <greet salutation="Hello" [name]="world">text</greet>
  * })

* class Ng2Component {
  *
  * @NgModule({
    * declarations: [Ng2Component, adapter upgradeNg1Component('greet')],
    * imports: [BrowserModule]
  * })

* * module.body.innerHTML = '<ng2></ng2>';

* adapter.bootstrap(document.body, ['myExample']).ready(function() {
  *
  * expect(document.body.textContent).toEqual("ng2 template: Hello world! - text()");
  * });

* ```

```

* const upgradeAdapter = new UpgradeAdapter(MyNg2Module);

* @param modules any AngularJS modules that the upgrade module should depend upon
*
* @returns an `UpgradeAdapterRef`, which lets you register a `ready()` callback to run assertions once the Angular components are ready to test through AngularJS.
*
* `registerForNg1Tests(modules?: string[]): UpgradeAdapterRef`
as any /** TODO #???? */)['angular'];\n windowAngular.resumeBootstrap = undefined;\n\n this.ngZone.run(()
=> { bootstrap(element, [this.ng1Module.name], config !); });\n const ng1BootstrapPromise = new
Promise((resolve) => {\n
if (windowAngular.resumeBootstrap) {\n
const originalResumeBootstrap: () =>
void = windowAngular.resumeBootstrap;\n
windowAngular.resumeBootstrap = function() {\n
windowAngular.resumeBootstrap = originalResumeBootstrap;\n
const r =
windowAngular.resumeBootstrap.apply(this, arguments);\n
resolve();\n
return r;\n
};\n
} else {\n
resolve();\n
}\n });\n\n Promise.all([this.ng2BootstrapDeferred.promise,
ng1BootstrapPromise]).then(([ng1Injector]) => {\n
angularElement(element).data
!(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);\n
this.moduleRef
!.injector.get<NgZone>(NgZone).run(\n
() => { (<any>upgrade)._bootstrapDone(this.moduleRef,
ng1Injector); });\n }, onError);\n return upgrade;\n }\n\n /**\n * Allows AngularJS service to be accessible
from Angular.\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * class Login { ... }\n * class Server { ...
}\n *\n * @Injectable()\n * class Example {\n * constructor(@Inject('server') server, login: Login) {\n *
...\n * }\n * }\n *\n * const module = angular.module('myExample', []);\n * module.service('server',
Server);\n * module.service('login', Login);\n *\n * const adapter = new UpgradeAdapter(MyNg2Module);\n *
adapter.upgradeNg1Provider('server');\n * adapter.upgradeNg1Provider('login', {asToken: Login});\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready((ref) => {\n * const example: Example =
ref.ng2Injector.get(Example);\n * });\n *\n * ```\n */\n upgradeNg1Provider(name: string, options?: {asToken:
any}) {\n const token = options && options.asToken || name;\n this.upgradedProviders.push({\n
provide:
token,\n
useFactory: ($injector: IInjectorService) => $injector.get(name),\n
deps: [$INJECTOR]\n });\n
}\n\n /**\n * Allows Angular service to be accessible from AngularJS.\n *\n * @usageNotes\n * ###
Example\n *\n * ```\n * class Example {\n * }\n *\n * const adapter = new
UpgradeAdapter(MyNg2Module);\n *\n * const module = angular.module('myExample', []);\n *
module.factory('example', adapter.downgradeNg2Provider(Example));\n *\n * adapter.bootstrap(document.body,
['myExample']).ready((ref) => {\n * const example: Example = ref.ng1Injector.get('example');\n * });\n *\n *
```\n */\n downgradeNg2Provider(token: any): Function { return downgradeInjectable(token); }\n\n /**\n *
Declare the AngularJS upgrade module for this adapter without bootstrapping the whole\n * hybrid application.\n
*\n * This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.\n *\n * @param modules
The AngularJS modules that this upgrade module should depend upon.\n * @returns The AngularJS upgrade
module that is declared by this method\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * const
upgradeAdapter = new UpgradeAdapter(MyNg2Module);\n * upgradeAdapter.declareNg1Module(['heroApp']);\n
* ```\n */\n private declareNg1Module(modules: string[] = []): IModule {\n const delayApplyExps: Function[] =
[];\n let original$applyFn: Function;\n let rootScopePrototype: any;\n let rootScope: IRootScopeService;\n
const upgradeAdapter = this;\n const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);\n
const platformRef = platformBrowserDynamic();\n\n this.ngZone = new NgZone({enableLongStackTrace:
Zone.hasOwnProperty('longStackTraceZoneSpec')});\n this.ng2BootstrapDeferred = new Deferred();\n
ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)\n
.factory(INJECTOR_KEY, () => this.moduleRef !.injector.get(Injector))\n
.factory(\n
LAZY_MODULE_REF,\n
[INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef)])\n
.constant(NG_ZONE_KEY, this.ngZone)\n
.factory(COMPILER_KEY, () => this.moduleRef
!.injector.get(Compiler))\n
.config([\n
'$provide', '$injector',\n
(provide: IProvideService,
ng1Injector: IInjectorService) => {\n
provide.decorator($ROOT_SCOPE, [\n
'$delegate',\n
function(rootScopeDelegate: IRootScopeService) {\n
// Capture the root apply so that we can delay first
call to $apply until we\n
// bootstrap Angular and then we replay and restore the $apply.\n
rootScopePrototype = rootScopeDelegate.constructor.prototype;\n
if
(rootScopePrototype.hasOwnProperty('$apply')) {\n
original$applyFn = rootScopePrototype.$apply;\n
rootScopePrototype.$apply = (exp: any) => delayApplyExps.push(exp);\n
} else {\n
throw
new Error('Failed to find \\'$apply\\' on \\'$rootScope\\'!');\n
}\n
return rootScope =

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provide.decorator($TESTABILITY, 'delegate', function(testabilityDelegate: ITestabilityService) {
  const originalWhenStable: Function = testabilityDelegate.whenStable;

  if (ng1Injector.has($TESTABILITY)) {
    return testabilityDelegate.whenStable = originalWhenStable;
  } else {
    ng1Testability.whenStable = originalWhenStable;
  }
})

provide.decorator($$TESTABILITY, [
  '$delegate',
  function(testabilityDelegate: ITestabilityService) {
    const originalWhenStable: Function = testabilityDelegate.whenStable;

    // Cannot use arrow function below because we need the context
    const newWhenStable = function(this: unknown, callback: Function) {
      originalWhenStable.call(this, function() {
        const ng2Testability: Testability =
          upgradeAdapter.moduleRef!.injector.get(Testability);

        if (ng2Testability.isStable()) {
          callback.apply(this, arguments);
        } else {
          ng2Testability.whenStable(newWhenStable.bind(this, callback));
        }
      });
    }

    testabilityDelegate.whenStable = newWhenStable;
    return testabilityDelegate;
  }]
}).then(() => {
  // Note: There is a bug in TS 2.4 that prevents us from
  // inlining this into @NgModule
  // TODO(tbosch): find or file a bug against TypeScript for this.
  const ngModule = {
    providers: [
      {provide: $INJECTOR, useFactory: () => ng1Injector},
      {provide: $COMPILE, useFactory: () => ng1Injector.get($COMPILE)},
      this.upgradedProviders
    ],
    imports: [resolveForwardRef(this.ng2AppModule)],
    entryComponents: this.downgradedComponents
  }

  // At this point we have ng1 injector and we have prepared
  // ng1 components to be upgraded, we now can bootstrap ng2.
  @NgModule({jit: true, ...ngModule})
  class DynamicNgUpgradeModule {
    constructor() {
      ngDoBootstrap();
    }
  }

  platformRef
    .bootstrapModule(
      DynamicNgUpgradeModule, [this.compilerOptions !,
      {ngZone: this.ngZone}])
    .then((ref: NgModuleRef<any>) => {
      this.moduleRef = ref;

      this.ngZone.run(() => {
        if (rootScopePrototype) {
          rootScopePrototype.$apply = original$applyFn;  // restore original $apply
          while (delayApplyExps.length) {
            rootScope.$apply(delayApplyExps.shift());
          }
          rootScopePrototype = null;
        }
      });
    })
    .then(() => {
      // A digest was triggered while one was already in progress.
      if (isDevMode()) {
        console.warn(
          'A digest was triggered
          while one was already in progress. This may mean that something is triggering
          digests outside the Angular zone.');
      }

      return rootScope.$evalAsync(() => {});
    })
    .then(() => {
      // clean out the element to prevent memory leaks
      this.element.data.$destroy();

      this.element.data.$destroy();
    })
    .catch((e) => {
      this.ng2BootstrapDeferred.reject(e);
    });
})

return rootScope.$digest();

// Synchronous
// promise-like object to wrap parent injectors,
// to preserve the synchronous nature of AngularJS's $compile.

class ParentInjectorPromise {
  // TODO(issue/24571): remove '!'.
  private injector !: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the
    // promise on the element
    element.data !(controllerKey(INJECTOR_KEY), this);
  }

  then(callback: (injector: Injector) => any) {
    if (this.injector) {
      callback(this.injector);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(injector: Injector) {
    this.injector = injector;

    // reset the
    // element data to point to the real injector
    this.element.data !(controllerKey(INJECTOR_KEY), injector);

    // store the promise on the element
    this.$injectors.push((injector: IInjectorService) => {
      // store the promise on the element
      element.data !(controllerKey(INJECTOR_KEY), injector);
    });
  }

  catch(e) { return e; }
}

UpgradeAdapterRef

/**
 * Use
 * `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.
 * @deprecated Deprecated since
 * v5. Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.
 * @publicApi
 * @export class UpgradeAdapterRef {
 *   // @internal *
 *   private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void) !; public ng1RootScope: IRootScopeService; 
 *   RootScopeService = null !; public ng1Injector: IInjectorService = null !; public ng2ModuleRef: NgModuleRef<any> = null !; public ng2Injector:
Injector = null !;\n/* @internal */\n private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: InjectorService) {\n  this.ng2ModuleRef = ngModuleRef;\n  this.ng2Injector = ngModuleRef.injector;\n  this.ng1Injector = ng1Injector;\n  this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);\n  this._readyFn &&\n  (upgradeAdapterRef: UpgradeAdapterRef) => {\n    this._readyFn = fn;\n  }\n  return null;\n}

/**\n * Register a callback function which is notified upon successful hybrid\n * AngularJS / Angular\n * application has been bootstrapped.
 * The `ready` callback function is invoked\n * inside the Angular zone, therefore it does not\n * require a call to `$apply()`.
 */
  public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) { this._readyFn = fn; }

  /**\n   * Dispose of running hybrid\n   * AngularJS / Angular application.
   */
  public dispose() {
    this.ng1Injector.get($ROOT_SCOPE).$destroy();
    this.ng2ModuleRef.destroy();
  }
}

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 */

/**
 * @module
 * @description
 * Entry point
 * for all public APIs of this package. allowing
 * Angular 1 and Angular 2+ to run side by side in the same
 * application.
 */
export {VERSION} from './src/common/src/version';
export {UpgradeAdapter, UpgradeAdapterRef} from './src/dynamic/src/upgrade_adapter';

// This file only re-exports content of the 'src' folder. Keep it that way.
"/\n*/
export * from './index';

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/fesm5/upgrade.js.map
No license file was found, but licenses were detected in source scan.

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 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/static/testing.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/static/static.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/static/testing/testing.d.ts
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/fesm2015/static/testing.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/fesm5/static/testing.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/fesm5/upgrade.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/fesm2015/upgrade.js
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 */

/**
 * @module
 *
 * @description
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

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 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular` typings extend the global `Function` interface with
  // `$inject?: string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: string[];
}

export type IInjectable = (Ng1Token | Function)[] | IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[] | {
  [key: string]: T;
}

export interface IModule {
  name: string;
  requires: (string|IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: Injectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: Injectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: IInjectable): IModule;
}

export interface ICompileService {
  (element: Element|NodeList|Node[]|string, transclude?: Function): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $$slots?: {
    [slotName: string]: ILinkFn;
  }
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  futureParentElement?: Node;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): void;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): void;
  $destroy(): any;
  $apply(exp?: Ng1Expression): any;
  $digest(): any;
  $evalAsync(exp: Ng1Expression, locals?: any): void;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
  [key: string]: any;
}

export interface IScope extends IRootScopeService {}
and not available on `window`.

```javascript
/**
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 * found in the LICENSE file at https://angular.io/license
 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';
```
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```typescript
letter) => letter.toUpperCase());

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).name || type.toString().split('
')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
    $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
    $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve!: (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  // ngUpgrade app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
  // ngUpgrade).
  Dynamic,

  // App using @angular/upgrade/static with `UpgradeModule`.
  Static,

  // App using @angular/upgrade/static with `downgradeModule()` (a.k.a. ngUpgrade-lite).
  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor` interface needed for AngularJS `ng-model`
 *     compatibility.
 */
function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component
 * (if it implements the needed subset of the `ControlValueAccessor` interface).
 */
export function hookupNgModel(ngModel: INgModelController,
    component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue);
    };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}

/**
 * Test two values for strict equality, accounting for the fact that NaN !== NaN.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}


```
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
    __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef!: ComponentRef<any>;
  private component: any;
  // TODO(issue/24571): remove '!'.
  private changeDetector!: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector!: ChangeDetectorRef;

  constructor(
      private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
      private ngModel: INgModelController, private parentInjector: Injector,
      private $injector: IInjectorService, private $compile: ICompileService,
      private $parse: IParseService, private componentFactory: ComponentFactory<any>,
      private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes =>
      this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope, (clone: Node[]) => {
        compiledProjectableNodes.push(clone);
        this.element.append(clone);
      });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]): void {
    const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create(
        {providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});

    this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;

    // testability hook is commonly added during component bootstrap
    // in downgraded application, component creation will take place here as well as adding the
    // testability hook.
    const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry).registerApplication(this.componentRef.location.nativeElement, testability);
    }

    hookupNgModel(this.ngModel, this.component);
    this.setupInputs(true, false);
  }

  setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string|null = null;

      if (attrs.hasOwnProperty(input.attr)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both `$observe()` and `$watch()` will call this function.
            if (!strictEquals(prevValue, currValue)) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
        })(input.prop);
      }
      if (expr != null) {
        this.$observe(expr, prop => {
          currValue: any, prevValue: any =>
            this.updateInput(prop, prevValue, currValue);
        });
      }
    }
  }

  updateInput(prop, prevValue: any, currValue: any): void {
    let unwatch: Function|null = null;
    unwatch = this.$watch(currValue, prop => {
      if (strictEquals(prevValue, currValue)) {
        prevValue = currValue;
      }
    });
  }

  // Invoke `ngOnChanges()` and Change Detection
  whenNecessary(): void {
    const detectChanges = () => this.changeDetector.detectChanges();
  }

  const prototype =
this.componentFactory.componentType.prototype; this.implementsOnChanges = !!(prototype &&
(OnChanges.prototype).ngOnChanges); this.componentScope.$watch(() => this.inputChangeCount,
this.wrapCallback(() => { /* Invoke `ngOnChanges()` */
  if (this.implementsOnChanges) {
    const inputChanges = this.inputChanges;
    this.inputChanges = {};
    this.componentScope.$watch(() => this.inputChangeCount,
    this.wrapCallback(() => {
      // Invoke `ngOnChanges()`
      if (this.implementsOnChanges) {
        const inputChanges = this.inputChanges;
        this.inputChanges = {};
        (<OnChanges>this.component).ngOnChanges(inputChanges !);
      }
    }));
    this.viewChangeDetector.markForCheck();
    if (manualAttachView || !propagateDigest) {
      let unwatch: Function|null = this.componentScope.$watch(this.wrapCallback(detectChanges));
      if (manuallyAttachView || !propagateDigest) {
        let unwatch: Function|null = this.componentScope.$watch(() => this.viewChangeDetector.markForCheck());
      }
    }
    setupOutputs();
    const attrs = this.attrs;
    const outputs = this.componentFactory.outputs || [];
    for (let j = 0; j < outputs.length; j++) {
      const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
      const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
      const bracketParenAttr = `[$(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})]`;
      // order below is important - first update bindings then evaluate expressions
      if (attrs.hasOwnProperty(bindonAttr)) {
        this.subscribeToOutput(output, attrs[bindonAttr], true);
      }
      if (attrs.hasOwnProperty(bracketParenAttr)) {
        this.subscribeToOutput(output, attrs[bracketParenAttr], true);
      }
      if (attrs.hasOwnProperty(output.onAttr)) {
        this.subscribeToOutput(output, attrs[output.onAttr]);
      }
      if (attrs.hasOwnProperty(output.parenAttr)) {
        this.subscribeToOutput(output, attrs[output.parenAttr]);
      }
    }
    private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
      const getter = this.$parse(expr);
      const setter = getter.assign;
      if (isAssignment && !setter) {
        throw new Error(`Expression '${expr}' is not assignable!`);
      }
      const emitter = this.component[output.prop] as EventEmitter<any>;
      if (emitter) {
        emitter.subscribe({
          next: isAssignment ? (v: any) => setter(this.scope, v) :
                                (v: any) => getter(this.scope, {'$event': v})
        });
      } else {
        throw new Error(`Missing emitter '${output.prop}' on component`);
      }
    }
    registerCleanup();
    const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
    const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
    let destroyed = false;
    this.element.on !('$destroy', () => this.componentScope.$destroy());
    this.componentScope.$on('$destroy', () => {
      if (!destroyed) {
        destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      }
    });
    this.inputChangeCount++;
    this.component[inputProp] = currValue;
  }
  groupProjectableNodes();
  const ngContentSelectors = this.componentFactory.ngContentSelectors || [];
  return groupNodesBySelector(ngContentSelectors, this.element.contents !());
});

function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number { return ngContentSelectors.findIndex((selector) => selector.indexOf(element) !=-1); }
const selector = ngContentSelectors[i];
if (selector === '*') {
  wildcardNgContentIndex = i;
} else {
  if (matchesSelector(element, selector)) {
    ngContentIndices.push(i);
  }
}

ngContentIndices.sort();

if (wildcardNgContentIndex !== -1) {
  ngContentIndices.push(wildcardNgContentIndex);
}
return ngContentIndices.length ? ngContentIndices[0] : null;

let _matches: (this: any, selector: string) => boolean;

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches ||
      elProto.matchesSelector ||
      elProto.mozMatchesSelector ||
      elProto.msMatchesSelector ||
      elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

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 */

import {isFunction} from './util';

export interface IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';
import DowngradeComponentAdapter from './downgrade_component_adapter';
import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation
 *
 * ### Examples
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs
 * to be made available in AngularJS templates.
 *
 * @example upgrade/static/ts/full/module.ts region="ng2-heroes"
 *
 * We must create an AngularJS
 *[directive](https://docs.angularjs.org/guide/directive)
 * that will make this Angular component available inside
 * AngularJS templates.
 * The `downgradeComponent()` function returns a factory function that we
 * can use to define the AngularJS directive that wraps the
 *AngularJS component.
 * @example upgrade/static/ts/full/module.ts region="ng2-heroes-ribbon"
 *
 * More for details and examples on downgrading Angular components to AngularJS components please
 * visit the [Upgrade
 *guide](guide/upgrade#using-angular-components-from-angularjs-code).
 */
corresponding Angular module will be bootstrapped, when the component needs to be instantiated.

*(This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.)*

* `propagateDigest?: boolean`: Whether to perform `ChangeDetectorRef#detectChanges` on the component on every

[$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`, change detection will still be performed when any of the component's inputs changes. *(Default: true)*

* `inputs?: string[]`: The inputs that this component can use.

* `outputs?: string[]`: The outputs of this component.

* `selectors?: string[]`: The selectors of this component.

---

**Public API**

```javascript
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
    // When using `downgradeModule()`, we need to handle certain things specially. For example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be
    // - dirty-checked.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
    // Angular zone.
    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    // inside the Angular zone (except if explicitly escaped, in which case we shouldn't
    // force it back in).
    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
        NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
    let ngZone: NgZone;

    // When downgrading multiple modules, special handling is needed w/ injectors.
    const hasMultipleDowngradedModules =
      isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

    return {
      restrict: 'E',
      terminal: true,
      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
      link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {
        // Notes:
        //
        // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
        // the same instance, but that is irrelevant)
        // - `finalModuleInjector` is used for all other injection purposes, (Note that Angular knows to only traverse
        // - the component-tree part of that injector, when looking for an injectable and then switch to the module
        // injector, (Note that there are basically three cases:
        // - If there is no parent component (thus no
        //   `parentInjector`), we bootstrap the downgrade
        // - `NgModule` and use its injector as both
        //   `finalModuleInjector` and
        //   `finalParentInjector`. (they might be the same instance, but that is irrelevant)
        //   - `finalModuleInjector` is used to retrieve ComponentFactoryResolver, thus it must be
        //   on the same tree as the `NgModule` that declares this downgraded component.
        // - `finalParentInjector` is for all other injection purposes.
        // (Note that Angular knows to only traverse
        // the component-tree part of that injector, when looking for an injectable and then switch to the module
        // injector, (Note that there are basically three cases:
        // - If there is no parent component (thus no
        //   `parentInjector`), we bootstrap the downgrade
        // - `NgModule` and use its injector as both
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        //   `finalParentInjector`. (they might be the same instance, but that is irrelevant)
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        //   on the same tree as the `NgModule` that declares this downgraded component.
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        // (Note that Angular knows to only traverse
        // the component-tree part of that injector, when looking for an injectable and then switch to the module
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        //   on the same tree as the `NgModule` that declares this downgraded component.
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        //   `finalModuleInjector` and
        //   `finalParentInjector`. (they might be the same instance, but that is irrelevant)
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        //   on the same tree as the `NgModule` that declares this downgraded component.
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        // the component-tree part of that injector, when looking for an injectable and then switch to the module
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        //   `parentInjector`), we bootstrap the downgrade
        // - `NgModule` and use its injector as both
        //   `finalModuleInjector` and
        //   `finalParentInjector`. (they might be the same instance, but that is irrelevant)
        //   - `finalModuleInjector` is used to retrieve ComponentFactoryResolver, thus it must be
        //   on the same tree as the `NgModule` that declares this downgraded component.
        // - `finalParentInjector` is for all other injection purposes.
        // (Note that Angular knows to only traverse
        // the component-tree part of that injector, when looking for an injectable and then switch to the module
        // injector, (Note that there are basically three cases:

        // Notes:
        // `finalModuleInjector` and `finalParentInjector` (they might be the same instance, but that is irrelevant)
        // - `finalModuleInjector` is used to retrieve ComponentFactoryResolver, thus it must be
        //   on the same tree as the `NgModule` that declares this downgraded component.
        // - `finalParentInjector` is for all other injection purposes.
      }
    }
```
2: It is possible that (while there are multiple downgraded modules) this
    // downgraded component and its parent component both belong to the same NgModule.
    // In that case, we could have used the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
    // treating this case as if they belong to different `NgModule`s. That doesn't really affect anything, since `parentInjector` has `moduleInjector` as ancestor // and trying to resolve `ComponentFactoryResolver` from either one will return
    // the same instance. // If there is a parent component, use its injector as parent injector. // If this is a "top-level" Angular component, use the
    module injector.
    const finalParentInjector = parentInjector || moduleInjector; // If this is a "top-level" Angular component or the parent component may belong to a different `NgModule`, use the module
    injector for module-specific dependencies. // If there is a parent component that belongs to the same `NgModule`, use its injector.
    const finalModuleInjector = moduleInjector || parentInjector;
    const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
      // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this
      // component belongs to.
      const componentFactoryResolver: ComponentFactoryResolver = moduleInjector.get(ComponentFactoryResolver);
      const componentFactory: ComponentFactory<any> = componentFactoryResolver.resolveComponentFactory(info.component) !;

      if (!componentFactory) {
        throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
      }

      const injectorPromise = new ParentInjectorPromise(element);
      const facade = new
        DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinjector, $compile, $parse, componentFactory, wrapCallback);

      const projectableNodes = facade.compileContents();
      facade.createComponent(projectableNodes);
      facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
      facade.setupOutputs();
      facade.registerCleanup();

      injectorPromise.resolve(facade.getInjector());

      if (ranAsync) {
        // If this is run async, it is possible
        // that it is not run inside an // digest and initial input values will not be detected // scope.$evalAsync(() => {});
      }
    };

    const downgradeFn = isNgUpgradeLite ? doDowngrade : (p Injector: Injector, m Injector: Injector) => {
      if (!ngZone) {
        ngZone = p Injector.get(NgZone);
      }

      wrapCallback(() => doDowngrade(p Injector, m Injector))();
    };

    // NOTE:
    // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because:
    // Closure Compiler (or some related tool) complains:
    // `TypeError: ...src$downgrade_component_ParentInjectorPromise.all is not a function`
    SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([p Injector, m Injector]) =>
      downgradeFn(p Injector, m Injector));

    ranAsync = true;
  }

  // bracket-notation because
  // of closure - see #14441
  directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];

  /**
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   * found in the LICENSE file at https://angular.io/license
   */

  import {Injector} from '@angular/core';
  import {IInjectorService} from './angular1';
  import {$INJECTOR, INJECTOR_KEY} from './constants';
  import {getTypeName, isFunction, validateInjectionKey} from './util';
defined `HeroesService`

```typescript
* @example upgrade/static/ts/full/module.ts region="\ng2-heroes-service\"*

* @example upgrade/static/ts/full/module.ts region="\ng2-module\"

* Now we can register the `downgradeInjectable` factory function for the service

* Inside an AngularJS component's controller we can get hold of the

* We gave when downgrading.

* When using `downgradeModule()`, downgraded injectables will not

* module that provides them is instantiated. In order to be safe, you need to ensure

* are not used anywhere _outside_ the part of the app where it is

* guaranteed that their module has been instantiated.

* For example, it is _OK_ to use a downgraded service in a

* from a downgraded Angular component provided by the same Angular

* as the injectable, but _not OK_ to use it in an AngularJS component that may be used

* Angular or

* use in a downgraded Angular component from a different module.

* @param token an `InjectionToken` that identifies a service provided from Angular.

* "belongs to", as returned by a call to `downgradeModule()`.

* It is the module, whose injector will

* option is only necessary when using `downgradeModule()` to downgrade more than one

* module.

* Returns a [factory function](https://docs.angularjs.org/guide/di) that can be

* used to register the service on an AngularJS module.

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slots[slotName];

slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
  return cloneAttach(!nodes, scope); // $slots to default slot transclude fn.

attachChildrenFn.$slots = slots; // AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular
// removes all text content after the first interpolation and updates it later, after // evaluating the expressions. This would result in AngularJS failing to recognize text
// nodes that start with an interpolation as transcluded content and use the fallback
// content instead. ! To avoid this issue, we add an // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)
// to empty text nodes (which can only be a result of Angular removing their initial content)
// NOTE: Transcluded text content that starts with whitespace followed by an interpolation // will still fail to be detected by AngularJS v1.6+

$template.forEach((node) => {
  if (node.nodeType === Node.TEXT_NODE && !node.nodeValue)
  { node.nodeValue = '\u200C';
  }
});

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) { this.getDirectiveRequire();

const requiredControllers = this.resolveRequire(directiveRequire);

if (controllerInstance && this.directive.bindToController && isMap(directiveRequire))

  const requiredControllersMap = requiredControllers as {
    [key: string]: IControllerInstance;
  }

Object.keys(requiredControllersMap).forEach((key) => {
  controllerInstance[key] = requiredControllersMap[key];
});

return requiredControllers;

private compileHtml(html: string): ILinkFn {
  this.element.innerHTML = html;
  return this.$compile(this.element.childNodes);
}

private extractChildNodes(): Node[] {
  const childNodes: Node[] = [];

  let childNode: Node|null;

  while (childNode = this.element.firstChild) {
    this.element.removeChild(childNode);
    childNodes.push(childNode);
  }

  return childNodes;
}

private getDirectiveRequire(): DirectiveRequireProperty {
  const require = this.directive.require || (this.directive.controller &&
    thisdirective.name) !; // if (isMap(require))

  Object.keys(require).forEach((key) => {
    const value = require[key];
    const match = value.match(REQUIRE_PREFIX_RE) !;
    const name = value.substring(match[0].length);

    if (name) {
      require[key] = match[0] + key; // to avoid AngularJS v1.6+
    }
  });

  return require &&
    private resolveRequire(require: DirectiveRequireProperty, controllerInstance?:
      any) {
  if (!require) {
    return null;
  } else if (Array.isArray(require)) {
    return require.map(req => this.resolveRequire(req));
  } else if (typeof require === 'object') {
    const value: {
      [key: string]: IControllerInstance;
    } = {};

    Object.keys(require).forEach((key) => value[key] = this.resolveRequire(require[key]));

    return value; // else if (typeof require === 'string')
  }

  const inheritType = match[1] || match[3];
  const name = value.substring(match[0].length);
  const isOptional = !!match[2];
  const searchParents = !! inheritType;
  const startOnParent = inheritType === '^^';

  const ctrlKey = controllerKey(name);

  const elem = startOnParent ? this.$element.parent !() : this.$element;

  const value = searchParents ?
    elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);

  if (!value && !isOptional) {
    throw new Error(
      `Unable to find required '${require}' in upgraded directive '${this.name}'.`);
  }

  return value;
}

else {
  throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}'.`);
}
const CAMEL_CASE = /\[A-Z\]/g;

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

NOT_SUPPORTED: any = 'NOT_SUPPORTED';

exports upgrade class UpgradeNg1ComponentAdapterBuilder {
  //
  // TODO(issue/24571): remove '!'.
  type !: Type<any>;
  inputs: string[] = [];
  outputs: string[] = [];
  propertyOutputs: string[] = [];
  checkProperties: string[] = [];
  propertyMap: {
    [name: string]: string = {};
  };

  //
  // TODO(issue/24571): find or
  // file a bug against TypeScript for this.
  //
  const directive = {selector: inputs, outputs: propertyMap}
  // Note: There is a bug in TS 2.4 that prevents us from
  // inlining this into @Directive
  //
  @Directive({jit: true, ...directive})
  class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
    constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
      super(new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,
        self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties)
    }
  }

  extractBindings() {
    const btcIsObject = typeof this.directive !== 'object';
    if (btcIsObject && Object.keys(this.directive!.bindToController || []).length) {
      throw new Error('Binding definitions on scope and controller at the same time are not supported.');
    }

    const context = (btcIsObject) ? this.directive!.bindToController : this.directive!.scope;
    if (typeof context == 'object') {
      Object.keys(context).forEach(propName => {
        const definition = context[propName];
        const bindingType = definition.charAt(0);
        const bindingOptions = definition.charAt(1);
        const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;

        // QUESTION: What about `=*`? Ignore?
        // Throw? Support?
        const inputName = `input_${attrName}`;
        const inputNameRename = `${inputName}: ${attrName}`;
        const outputName = `output_${attrName}`;
        const outputNameRename = `${outputName}: ${attrName}`;
        const outputNameRenameChange = `${outputNameRename}Change`;

        switch (bindingType) {
          case '@':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.propertyMap[inputName] = propName;
            break;
          case '=':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRenameChange);
            this.propertyMap[outputName] = propName;
            this.checkProperties.push(propName);
            this.propertyOutputs.push(outputName);
            break;
          case '&':
            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRename);
            this.propertyMap[outputName] = propName;
            break;
          default:
            let json = JSON.stringify(context);
            throw new Error(`Unexpected mapping '${bindingType}' in '${json}'
                in '${(this.name || 'directive')}'.
                Unmapped static resolve in exportedComponents: {
                [name: string]: UpgradeNg1ComponentAdapterBuilder,
                Sinjector: InjectorService: Promise<string[]>
                'Const promises is Object.keys(exportedComponents).map(name =>
                  const this.exportedComponent = exportedComponents[name];
                  exportedComponent.directive =
                  UpgradeHelper.getDirective(Sinjector, name); return Promise
                  .resolve(UpgradeHelper.getTemplate(Sinjector, exportedComponent.directive, true))
                .then(= exportedComponent.template = template);
              ).return Promise.all(promise);
            })
          }
        }
      });
    }
  }
}

class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
  //
  //
  // Note: There is a bug in TS 2.4 that prevents us from
  // inlining this into @Directive
  //
  //
  // TODO(issue/24571): find or
  // file a bug against TypeScript for this.
  //
  const directive = {selector: inputs, outputs: propertyMap}
  // Note: There is a bug in TS 2.4 that prevents us from
  // inlining this into @Directive
  //
  @Directive({jit: true, ...directive})
  class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
    constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
      super(new UpgradeHelper(injector, name, elementRef, this.directive || undefined), scope,
        this.template, this.inputs, this.outputs, this.propertyOutputs, this.checkProperties)
    }
  }

  extractBindings() {
    const btcIsObject = typeof this.directive !== 'object';
    if (btcIsObject && Object.keys(this.directive!.bindToController || []).length) {
      throw new Error('Binding definitions on scope and controller at the same time are not supported.');
    }

    const context = (btcIsObject) ? this.directive!.bindToController : this.directive!.scope;
    if (typeof context == 'object') {
      Object.keys(context).forEach(propName => {
        const definition = context[propName];
        const bindingType = definition.charAt(0);
        const bindingOptions = definition.charAt(1);
        const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;

        // QUESTION: What about `=*`? Ignore?
        // Throw? Support?
        const inputName = `input_${attrName}`;
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        const outputName = `output_${attrName}`;
        const outputNameRename = `${outputName}: ${attrName}`;
        const outputNameRenameChange = `${outputNameRename}Change`;

        switch (bindingType) {
          case '@':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.propertyMap[inputName] = propName;
            break;
          case '=':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRenameChange);
            this.propertyMap[outputName] = propName;
            this.checkProperties.push(propName);
            this.propertyOutputs.push(outputName);
            break;
          case '&':
            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRename);
            this.propertyMap[outputName] = propName;
            break;
          default:
            let json = JSON.stringify(context);
            throw new Error(`Unexpected mapping '${bindingType}' in '${json}'
                in '${(this.name || 'directive')}'.
                Unmapped static resolve in exportedComponents: {
                [name: string]: UpgradeNg1ComponentAdapterBuilder,
                Sinjector: InjectorService: Promise<string[]>
                'Const promises is Object.keys(exportedComponents).map(name =>
                  const this.exportedComponent = exportedComponents[name];
                  exportedComponent.directive =
                  UpgradeHelper.getDirective(Sinjector, name); return Promise
                  .resolve(UpgradeHelper.getTemplate(Sinjector, exportedComponent.directive, true))
                .then(= exportedComponent.template = template);
              ).return Promise.all(promise);
            })
          }
        }
      });
    }
  }
}

upgrade class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
  //
  //
  // Note: There is a bug in TS 2.4 that prevents us from
  // inlining this into @Directive
  //
  //
  // TODO(issue/24571): find or
  // file a bug against TypeScript for this.
  //
  const directive = {selector: inputs, outputs: propertyMap}
  // Note: There is a bug in TS 2.4 that prevents us from
  // inlining this into @Directive
  //
  @Directive({jit: true, ...directive})
  class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
    constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
      super(new UpgradeHelper(injector, name, elementRef, this.directive || undefined), scope,
        this.template, this.inputs, this.outputs, this.propertyOutputs, this.checkProperties)
    }
  }

  extractBindings() {
    const btcIsObject = typeof this.directive !== 'object';
    if (btcIsObject && Object.keys(this.directive!.bindToController || []).length) {
      throw new Error('Binding definitions on scope and controller at the same time are not supported.');
    }

    const context = (btcIsObject) ? this.directive!.bindToController : this.directive!.scope;
    if (typeof context == 'object') {
      Object.keys(context).forEach(propName => {
        const definition = context[propName];
        const bindingType = definition.charAt(0);
        const bindingOptions = definition.charAt(1);
        const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;

        // QUESTION: What about `=*`? Ignore?
        // Throw? Support?
        const inputName = `input_${attrName}`;
        const inputNameRename = `${inputName}: ${attrName}`;
        const outputName = `output_${attrName}`;
        const outputNameRename = `${outputName}: ${attrName}`;
        const outputNameRenameChange = `${outputNameRename}Change`;

        switch (bindingType) {
          case '@':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.propertyMap[inputName] = propName;
            break;
          case '=':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRenameChange);
            this.propertyMap[outputName] = propName;
            this.checkProperties.push(propName);
            this.propertyOutputs.push(outputName);
            break;
          case '&':
            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRename);
            this.propertyMap[outputName] = propName;
            break;
          default:
            let json = JSON.stringify(context);
            throw new Error(`Unexpected mapping '${bindingType}' in '${json}'
                in '${(this.name || 'directive')}'.
                Unmapped static resolve in exportedComponents: {
                [name: string]: UpgradeNg1ComponentAdapterBuilder,
                Sinjector: InjectorService: Promise<string[]>
                'Const promises is Object.keys(exportedComponents).map(name =>
                  const this.exportedComponent = exportedComponents[name];
                  exportedComponent.directive =
                  UpgradeHelper.getDirective(Sinjector, name); return Promise
                  .resolve(UpgradeHelper.getTemplate(Sinjector, exportedComponent.directive, true))
                .then(= exportedComponent.template = template);
              ).return Promise.all(promise);
            })
          }
        }
      });
    }
  }
}
this.directive.controller;

if (this.directive.bindToController && controllerType) {
  this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
  this.destinationObj = this.controllerInstance;
} else {
  this.destinationObj = this.componentScope;
}

for (let i = 0; i < inputs.length; i++) {
  let input = (this as any)[inputs[i]] = null;
  let inputType = (this as any)[inputs[i]].constructor;

  if (controllerType && inputType == inputType) {
    constantEmitters = (this as any)[inputs[i]].indexOf(output) !== -1
  }
}

this.componentProperty(
  outputs[j], (emitter => (value: any) => emitter.emit(value))(emitter))

for (let k = 0; k < props.length; k++) {
  (this as any)[props[k]] = null;
}

for (let j = 0; j < outputs.length; j++) {
  const emitter = (this as any)[outputs[j]].new EventEmitter<any>();
  if (this.propOuts.indexOf(outputs[j]) === -1) {
    this.setComponentProperty(
      outputs[j], (emitter => (value: any) => emitter.emit(value))(emitter));
  }
}

for (let k = 0; k < props.length; k++) {
  this.checkLastValues.push(INITIAL_VALUE);
}

ngOnInit() {
  // Collect contents, insert and compile template
  const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
  const linkFn = this.helper.compileTemplate(this.template);

  // Instantiate controller (if not already done so)
  const controllerType = this.directive.controller;
  const bindToController = this.directive.bindToController;
  if (controllerType && !bindToController) {
    this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
  }

  // Require other controllers
  const requiredControllers =
    this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

  // Hook: $onInit
  if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
    this.controllerInstance.$onInit();
  }

  // Linking
  const link = this.directive.link;
  const preLink = typeof link == 'object' && link.pre;
  const postLink = typeof link == 'object' ? link.post : link;
  const attrs: IAttributes = NOT_SUPPORTED;
  const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
  if (preLink) {
    preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
  }

  linkFn(this.componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});

  if (postLink) {
    postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
  }

  // Hook: $postLink
  if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
  }
}

ngOnChanges(changes: SimpleChanges) {
  const ng1Changes: any = {};
  Object.keys(changes).forEach(name => {
    const change: SimpleChange = changes[name];
    this.setComponentProperty(name, change.currentValue);
    ng1Changes[this.propertyMap[name]] = change;
  });

  if (isFunction(this.destinationObj!.ngOnChanges)) {
    this.destinationObj!.ngOnChanges(ng1Changes);
  }

  if (isFunction(this.destinationObj!.lastValues) && (ng1Changes || !this.destinationObj!.lastValues)) {
    this.destinationObj!.lastValues = this.checkLastValues;
    const checkProperties = this.checkProperties;
    const propOuts = this.propertyMap;
    checkProperties.forEach((propName, i) => {
      const value = this.destinationObj![propName];
      const last = this.checkLastValues[i];
      if (notStrictEquals(last, value)) {
        const eventEmitter = (this as any)[propOuts[i]].new EventEmmitter();
        eventEmitter.emit(lastValues[i] = value);
      }
    });
  }

  if (isFunction(this.destinationObj!.ngDoCheck)) {
    this.destinationObj!.ngDoCheck();
  }

  if (isFunction(this.destinationObj!.ngOnDestroy)) {
    this.destinationObj!.ngOnDestroy();
  }
}

setComponentProperty(name: string, value: any) {
  this.destinationObj![this.propertyMap[name]] = value;
}

ngDoCheck() {
  this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

ngOnDestroy() {
  this.helper.onDestroy(this.componentScope, this.controllerInstance);
}

setComponentProperty(name: string, value: any) {
}

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component from AngularJS component directive

* (See [UpgradeAdapter#upgradeNg1Component()])

* creation of AngularJS directive from Angular component

* (See [UpgradeAdapter#downgradeNg2Component()])

* 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks

* coexisting in a single application.

* usageNotes

* ### Mental Model

* When reasoning about how a hybrid application works it is useful to have a mental model which

* describes what is happening and explains what is happening at the lowest level.

* 1. There are two independent frameworks running in a single application, each framework treats

* the other as a black box.

* 2. Each DOM element on the page is owned exactly by one framework. Whichever framework

* instantiated the element is the owner. Each framework only updates/interacts with its own

* DOM elements and ignores others.

* 3. AngularJS directives always execute inside AngularJS framework codebase regardless of

* where they are instantiated.

* 4. Angular components always execute inside Angular framework codebase regardless of

* where they are instantiated.

* 5. An AngularJS component can be upgraded to an Angular component. This creates

* Angular directive, which bootstraps the AngularJS component directive in that location.

* 6. An Angular component can be downgraded to an AngularJS component directive. This creates

* an AngularJS directive, which bootstraps the Angular component in that location.

* 7. Whenever an adapter component is instantiated the host element is owned by the framework

* doing the instantiation. The other framework then instantiates and owns the view for that

* component. This implies that component bindings will always follow the semantics of

* the instantiation framework. The syntax is always that of Angular syntax.

* 8. AngularJS is always bootstrapped first and owns the bottom most view.

* 9. The new application is running in Angular zone, and therefore it no longer needs calls to

* ng1 components.


* @usageNotes

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instantiated in AngularJS, it will be using Angular's syntax. This has to be done, this way because we must
follow Angular components do not declare how the attributes should be interpreted. By way of the
ControlValueAccessor interface from @angular/forms. Only components that implement this interface are
eligible. This *Supported Features* of an *NgModel* is

- Interpolation: `comp greeting="Hello {{name}}!"` *Expression: `comp [name]="username"` *Event: `comp (close)=function()` *Content
projection: yes * *Example

### Supported Features

- Bindings:
  - Attribute: `<comp name="World"` *Interpolation: `comp greeting="Hello {{name}}!"` *Event: `comp (close)=function()` *Content
projection: yes * *Example

### Supported Features

- Bindings:
  - Attribute: `<comp name="World"` *
- Interpolation: `comp greeting="Hello {{name}}!"` *
- Event: `comp (close)=function()` *
- Content projection: yes *

### Example

```javascript
const adapter = new UpgradeAdapter(forwardRef(() =>
MyNg2Module));

const module = angular.module('myExample', []);

module.directive('greet',
adapter.downgradeNg2Component(Greeter));

const Greeter = class Greeter {
  @Input() salutation: string;
  @Input() name: string;
}

class MyNg2Module {}

document.body.innerHTML =
  'ng1 template: <greet salutation="Hello" [name]="world">text</greet>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual("ng1 template: Hello world! - text");
});
```

```typescript
* const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
* // configure the adapter with upgrade/downgrade components and services
* upgradeAdapter.downgradeComponent(MyComponent);
* let upgradeAdapterRef: UpgradeAdapterRef;
* let $compile, $rootScope;
* // We must register the adapter before any calls to 'inject()'
* upgradeAdapterRef = upgradeAdapter.registerForNg1Tests('heroApp');
* $compile = $compile;
* $rootScope = $rootScope;

* beforeEach(() => {
*   upgradeAdapterRef = upgradeAdapter.registerForNg1Tests(modules: []);
* });

* beforeEach(inject((_$compile_, _$rootScope_) => {
*   $compile = _$compile_;
*   $rootScope = _$rootScope_;
* }));

* it("says hello", (done) => {
*   upgradeAdapterRef.ready(() => {
*     const element = $compile("<my-component></my-component>")($rootScope);
*     $rootScope.$apply();
*     expect(element.html()).toContain("Hello World");
*     done();
*   })
* });

* @param modules any AngularJS modules that the upgrade module should depend upon
* @returns an `UpgradeAdapterRef`, which lets you register a ready() callback to run assertions once the Angular components are ready to test through AngularJS.
*/

registerForNg1Tests(modules?: string[]): UpgradeAdapterRef {
    const windowNgMock = (window as any)['angular'].mock;
    if (!windowNgMock || !windowNgMock.module) {
      throw new Error('Failed to find \`angular.mock.module\'.');
    }

    this.declareNg1Module(modules);
    windowNgMock.module(this.ng1Module.name);
    const upgrade = new UpgradeAdapterRef();
    this.ng2BootstrapDeferred.promise.then((ng1Injector) => {
      (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);
    return upgrade;
  }

  /**
   * Bootstrap a hybrid AngularJS / Angular application.
   *
   * This `bootstrap` method is a direct replacement (takes same arguments) for AngularJS `\`bootstrap\` HTTPs://docs.angularjs.org/api/ng/function/angular.bootstrap` method. Unlike AngularJS, this bootstrap is asynchronous.

   * @usageNotes
   * ### Example
   *
   * ```
   * const adapter = new UpgradeAdapter(MyNg2Module);
   * const module = angular.module('myExample', []);
   * module.directive('ng2', adapter.downgradeNg2Component(Ng2));
   *
   * module.directive('ng1', function() {
   *   return {
   *     scope: { title: '=' },
   *     template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'
   *   };
   * });
   *
   * @Component({
   *   selector: 'ng2',
   *   inputs: ['name'],
   *   template: 'ng2[<ng1 [title]='name'>transclude</ng1>](<ng-content></ng-content>)'
   * })
   * class Ng2 {
   * }
   *
   * @NgModule({
   *   declarations: [Ng2, adapter.upgradeNg1Component('ng1')],
   *   imports: [BrowserModule]
   * })
   * class MyNg2Module {}
   *
   * document.body.innerHTML = '<ng2 name="World">project</ng2>';
   *
   * adapter.bootstrap(document.body, ['myExample']).ready(function() {
   *   expect(document.body.textContent).toEqual("<ng2 name="World!">project</ng2>";
   *   adapter.bootstrap(document.body, ['myExample']).ready(function() {
   *     expect(document.body.textContent).toEqual("<ng2 name="World!">project</ng2>");
   *   });
   * });
   */

bootstrap(element: Element, modules: any[], config?: IAngularBootstrapConfig):
UpgradeAdapterRef {
    this.declareNg1Module(modules);
    this.const upgrade = new UpgradeAdapterRef();
    // Make sure resumeBootstrap() only exists if the current bootstrap is deferred
    const windowAngular = (window as any /** TODO #???? */)['angular'];
    windowAngular.resumeBootstrap = undefined;
    this.ngZone.run(() => { bootstrap(element, [this.ng1Module.name], config !); });
    const ng1BootstrapPromise = new Promise((resolve) => {
      if (windowAngular.resumeBootstrap) {
        windowAngular.resumeBootstrap = function() {
          windowAngular.resumeBootstrap = originalResumeBootstrap;
          windowAngular.resumeBootstrap = undefined;
          this.ngZone.run(() => { bootstrap(element, [this.ng1Module.name], config !); });
          const ng1BootstrapPromise = new Promise((resolve) => {
            if (windowAngular.resumeBootstrap) {
              const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
              windowAngular.resumeBootstrap = originalResumeBootstrap;
              const r = windowAngular.resumeBootstrap.apply(this, arguments);
              resolve(r); return r; }, resolve());
        } else {
          resolve() && this.ng2BootstrapDeferred.promise.then((ng1Injector) => {
            angularElement(element).data !(controllerKey(INJECTOR_KEY), this.moduleRef !.injector); this.moduleRef !.injector.get<NgZone>(NgZone).run(() => { (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); });
            onError(); return upgrade; })
            return ();
        }
      } else if (windowAngular.resumeBootstrap) {
        return ();
      }
    });
    windowAngular.resumeBootstrap = originalResumeBootstrap;
    windowAngular.resumeBootstrap = function() {
      windowAngular.resumeBootstrap = originalResumeBootstrap;
      const r = windowAngular.resumeBootstrap.apply(this, arguments);
      resolve(r); return r; } else {
        Promises.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(([ng1Injector]) => {
          angularElement(element).data !(controllerKey(INJECTOR_KEY), this.moduleRef !.injector); this.moduleRef !.injector.get<NgZone>(NgZone).run(() => { (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); });
          onError(); return upgrade; })
          return ();
        } else if (windowAngular.resumeBootstrap) {
          return ();
        }
    }
    return upgrade;
  }
```

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adapter.upgradeNg1Provider('server');
   * const example: Example =
   *
   */
  upgradeNg1Provider(name: string, options?: {asToken: any}) {
    const token = options && options.asToken || name;
    this.upgradedProviders.push({
      provide: token,
      useFactory: (injector: InjectorService) => injector.get(name),
      deps: [inJECTOR]
    });

  /**
   * Allows Angular service to be accessible from AngularJS.
   *
   * @usageNotes
   * ### Example
   *
   */
  downgradeNg1Provider(token: any): Function { return downgradeInjectable(token); }

  /**
   * Declare the AngularJS upgrade module for this adapter without bootstrapping the whole
   *
   * @param modules
   * @returns The AngularJS upgrade module that is declared by this method
   *
   * @usageNotes
   * ### Example
   *
   */
  private declareNg1Module(modules: string[]): IModule {
    const delayApplyExps: Function[] = [];
    let original$applyFn: Function;
    let rootScopePrototype: any;
    let rootScope: IRootScopeService;
    const upgradeAdapter = this;
    const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);
    const platformRef = platformBrowserDynamic();
    const ngZone = new NgZone({enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec')});
    const ng2BootstrapDeferred = new Deferred();

    ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)
        .factory(INJECTOR_KEY, () => this.moduleRef.injector.get(Injector))
        .factory(LAZY_MODULE_REF, INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef))
        .constant(NG_ZONE_KEY, ngZone)
        .factory(COMPILER_KEY, () => this.moduleRef.injector.get(Compiler))
        .config([
          '$provide', '$injector',
          (provide: IProvideService, ng1Injector: IInjectorService) => {
            provide.decorator($ROOT_SCOPE, [
              '$delegate',
              function(rootScopeDelegate: IRootScopeService) {
                // Capture the root apply so that we can delay first
                // call to $apply until we
                return rootScope = rootScopeDelegate;
              }
            ]);
            if (ng1Injector.has($$TESTABILITY)) {
              provide.decorator($$TESTABILITY, [
                '$delegate',
                function(testabilityDelegate: ITestabilityService) {
                  const originalWhenStable: Function = testabilityDelegate.whenStable;
                  if (ng1Injector.has($TESTABILITY)) {
                    const originalWhenStable: Function = testabilityDelegate.whenStable;
                    // Cannot use arrow function below because we need the context
                    return rootScopeDelegate;
                  } else {
                    throw new Error('Failed to find $`applyFn on $rootScope`!');
                  }
                }
              ]);
            }
          }
        ]);

    ng1Module.run([n
      '$injector', '$rootScope',
      (ng1Injector: IInjectorService, rootScope: IRootScopeService) => {
        UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector)
          .then(() => {
            // Note: There is a bug in TS 2.4 that prevents us from
            // inlining this into @NgModule
            // TODO(bosch): find or file a bug against TypeScript for this.
            return testabilityDelegate;
          })
          .then(())
          .then((.providers: [n
            (provide: $INJECTOR, useFactory: () => ng1Injector),
          ];

        return rootScope;
      });
    }]);
  }}

  /**
   * Constructor
   *
   * @usageNotes
   * ### Example
   *
   */
  constructor(ngModule: NgModule) {
    upgradeAdapter = new UpgradeAdapter(ngModule);
    upgradeAdapter.declareNg1Module('heroApp');
    private declareNg1Module(modules: string[]): IModule {
      let original$applyFn: Function;
      let rootScopePrototype: any;
      let rootScope: IRootScopeService;
      const upgradeAdapter = new UpgradeAdapter(ngModule);
      const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);
      const platformRef = platformBrowserDynamic();
      const ngZone = new NgZone({enableLongStacktrace: this.zone});
      const ng2BootstrapDeferred = new Deferred();

      ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)
          .factory(INJECTOR_KEY, () => this.moduleRef.injector.get(Injector))
          .factory(LAZY_MODULE_REF, INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef))
          .constant(NG_ZONE_KEY, ngZone)
          .factory(COMPILER_KEY, () => this.moduleRef.injector.get(Compiler))
          .config([n
            '$provide', '$injector',
            (provide: IProvideService, ng1Injector: IInjectorService) => {
              provide.decorator($ROOT_SCOPE, [
                '$delegate',
                function(rootScopeDelegate: IRootScopeService) {
                  // Capture the root apply so that we can delay first
                  // call to $apply until we
                  return rootScope = rootScopeDelegate;
                }
              ]);
            if (ng1Injector.has($$TESTABILITY)) {
              provide.decorator($$TESTABILITY, [
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                }
              ]);
            }
          ]);

    ng1Module.run([n
      '$injector', '$rootScope',
      (ng1Injector: IInjectorService, rootScope: IRootScopeService) => {
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          .then(() => {
            // Note: There is a bug in TS 2.4 that prevents us from
            // inlining this into @NgModule
            // TODO(bosch): find or file a bug against TypeScript for this.
            return testabilityDelegate;
          })
          .then((providers: [n
            (provide: $INJECTOR, useFactory: () => ng1Injector),
          ]);
useFactory: () => ng1Injector.get(SCOMPILE),

this.upgradedProviders =

import: [resolveForwardRef(this.ng2AppModule)],

entryComponents: this.downgradedComponents

// At this point we have ng1 injector and we have prepared
// ng1 components to be upgraded, we now can bootstrap ng2.

@NgModule({
jit: true, ...
ngModule
})

class DynamicNgUpgradeModule {

constructor() {}

ngDoBootstrap() {}

platformRef
.bootstrapModule(
DynamicNgUpgradeModule, [this.compilerOptions !,

{ngZone: this.ngZone}]
)

.then((ref: NgModuleRef<any>) => {

this.moduleRef = ref;

rootScopePrototype.$apply = original$applyFn; // restore original Sapply

while (delayApplyExps.length) {

delayApplyExps.shift();

}

rootScopePrototype = null;

let subscription =
ng2BootstrapDeferred.resolve(ng1Injector),

.then(() => {

ng2BootstrapDeferred.reject(e); // dispose of running hybrid

return rootScope.$digest();

return rootScope.$evalAsync(() => {});

this.ng2BootstrapDeferred.reject(e);

}).then(() => {

subscription.unsubscribe();

}).catch((e) =>

this.ng2BootstrapDeferred.reject(e));

}

/**
 * Synchronous
 * promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's $compile.

 * @class ParentInjectorPromise

 * @todo(issue/24571): remove '!'.
 * @internal
 * @private
 */
export class ParentInjectorPromise {

private injector!: Injector;

callbacks: ((injector: Injector) => any)[] = [];

constructor(private element: IAugmentedJQuery) {

// store the promise on the element

this.element.data!(controllerKey(INJECTOR_KEY), this);

}

then(callback: (injector: Injector) => any) {

if (this.injector) {

callback(this.injector);
}

else {

this.callbacks.push(callback);
}

}

resolve(injector: Injector) {

this.injector = injector;

// reset the element data to point to the real injector

this.element.data!(controllerKey(INJECTOR_KEY), injector);

// clean out the element to prevent memory leaks

this.element = null !;

// run all the queued callbacks

this.callbacks.forEach((callback) => callback(injector));

this.callbacks.length = 0;

}

/**
 * Register a callback function which is notified upon successful hybrid
 * AngularJS / Angular application.

 * The `ready` callback function is invoked inside the Angular zone,
 * therefore it does not *require* a call to `$apply()`.

 * @param fn
 * @publicApi
 */
export class UpgradeAdapterRef {

private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

ng1RootScope: IRootScopeService = null !;

ng1Injector: IInjectorService = null !;

ng2ModuleRef: NgModuleRef<any> = null !;

ng2Injector: Injector = null !;

ng2BootstrapDeferredDone: (ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) => void; // Dispose of running hybrid

// Register a callback function which is notified upon successful hybrid

AngularJS / Angular

* application has been bootstrapped.

* The `ready` callback function is invoked inside the Angular zone, therefore it does not *require* a call to `$apply()`.

* @param fn

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Angular
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The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

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1.2140 highcharts-ng 1.2.0

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1.2144 minimal-json 0.9.2

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1.2146 gnutls 3.6.7-4+deb10u3

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- 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
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
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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/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/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  
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* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1-
  jar/org/hornetq/jms/client/HornetQTemporaryQueue.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1-
  jar/org/hornetq/jms/api/jms/JMSConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1-
  jar/org/hornetq/jms/client/HornetQMessageConsumer.java
jar/org/hornetq/api/jms/HornetQJMSConstants.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/jms/client/HornetQConnection.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/jms/client/HornetQConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/jms/client/HornetQConnectionMetaData.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/jms/client/HornetQJMSConsumer.java
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* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/jms/client/HornetQJMSClientBundle.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/jms/client/HornetQQueueBrowser.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/jms/client/HornetQMessageProducer.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/jms/client/HornetQMessage.java
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* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/jms/client/package-info.java
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* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/api/jms/management/ConnectionFactoryObjectFactory.java
* /opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1.jar/org/hornetq/api/jms/management/package-info.java
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Files-Excluded-regen-configure: bin/*

Upstream-Name: perl

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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.

Upstream Authors:

Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

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Files: *

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1.2164 jctools-core 2.1.2

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```xml
<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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  <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/1140962761_1614910158.25/0/jctools-core-2-1-2-sources-2-jar/org/jctools/util/Pow2.java
  * /opt/cola/permits/1140962761_1614910158.25/0/jctools-core-2-1-2-sources-2-jar/org/jctools/maps/NonBlockingHashMapLong.java
  * /opt/cola/permits/1140962761_1614910158.25/0/jctools-core-2-1-2-sources-2-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
  * /opt/cola/permits/1140962761_1614910158.25/0/jctools-core-2-1-2-sources-2-jar/org/jctools/queues/MpscCompoundQueue.java
  * /opt/cola/permits/1140962761_1614910158.25/0/jctools-core-2-1-2-sources-2-jar/org/jctools/queues/IndexedQueueSizeUtil.java
  * /opt/cola/permits/1140962761_1614910158.25/0/jctools-core-2-1-2-sources-2-jar/org/jctools/queues/MpscUnboundedArrayQueue.java

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1.2166 archaius-core 0.7.6

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1.2170 angular-messages 1.5.8

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 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
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 *
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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/**
 * Constructs 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 methodVisitor 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 descriptor the method's descriptor (see { @link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
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/**
 * Constructs a new { @link LocalVariablesSorter }. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 * *
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see { @link Type}).
 */
* @param methodVisitor the method visitor to which this adapter delegates calls.
* @throws IllegalStateException if a subclass calls this constructor.
*/

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1.2180 libedit 3.1-20150325-1ubuntu2

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1.2181 jffi 1.2.19
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1.2182 tomcat-embed-el 8.5.11

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1.2183 opensaml-xmlsec-impl 3.3.1

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  jar/org/springframework/security/config/annotation/method/configuration/MethodSecurityMetadataSourceAdvisorRegistrar.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
  jar/org/springframework/security/config/annotation/configuration/AutowireBeanFactoryObjectPostProcessor.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfigurerAdapter.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
  jar/org/springframework/security/config/annotation/method/configuration/MethodSecurityMetadataSourceAdvisorRegistrar.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
  jar/org/springframework/security/config/annotation/configuration/AutowireBeanFactoryObjectPostProcessor.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfigurerAdapter.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
  jar/org/springframework/security/config/annotation/method/configuration/MethodSecurityMetadataSourceAdvisorRegistrar.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
  jar/org/springframework/security/config/annotation/configuration/AutowireBeanFactoryObjectPostProcessor.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
  jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfigurerAdapter.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
  jar/org/springframework/security/config/annotation/method/configuration/MethodSecurityMetadataSourceAdvisorRegistrar.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
*/
jar/org/springframework/security/config/method/GlobalMethodSecurityBeanDefinitionParser.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/annotation/web/configurers/CorsConfigurer.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/annotation/web/configurers/X509Configurer.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/annotation/web/builders/WebSecurity.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/annotation/web/configurers/ExceptionHandlingConfigurer.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/http/FormLoginBeanDefinitionParser.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/annotation/web/configurers/ServletApiConfigurer.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/annotation/web/configurers/ExpressionUrlAuthorizationConfigurer.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/authentication/AuthenticationManagerBeanDefinitionParser.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/annotation/web/configurers/BeanIds.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
jar/org/springframework/security/config/ldap/ContextSourceSettingPostProcessor.java

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1.2186 pflag 1.0.5

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1.2192 libuv 1.11.0 1
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 */

#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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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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@import './skin';
@import './layout';
%notice {
  border-radius: $decor-radius-100;
  border-width: 1px;
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
}
%notice::before {
  @extend %as-pseudo;
}
%notice-success {
  @extend %frame-green-500;
}
%notice-info {
  @extend %frame-blue-500;
}
%notice-highlight {
  @extend %frame-gray-800;
}
%notice-warning {
  @extend %frame-yellow-500;
}
%notice-error {
  @extend %frame-red-500;
}
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import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
// License Specific Flags
Flags map[string]interface{} `json:"flags"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
Valid    bool
License  *License
Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
var reply LicenseReply
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
return nil, err
} else {
return &reply, nil
}
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
r := op.c.newRequest("GET", "/v1/operator/license")
r.params.Set("signed", "1")
r.setQueryOptions(q)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
return "", err
}
derf resp.Body.Close()

data, err := ioutil.ReadAll(resp.Body)
if err != nil {
return "", err
}

return string(data), nil

}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
var reply LicenseReply
r := op.c.newRequest("DELETE", "/v1/operator/license")
r.setWriteOptions(opts)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return nil, err
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

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>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
>>> rpm-4.13.0.2-1.ph2
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>>> util-linux-2.32-1.ph2

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SECTION 6: GNU Lesser General Public License, V2.1

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>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2
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>>> gmp-6.1.2-2.ph2

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>>> ca-certificates-20180919-1.ph2
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>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002

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Support for streaming Protocol Buffer messages for the Go language (golang).
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>>  govomi-v0.17.1
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>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80

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>>> syncutil_singleflight-7ce08ca145db0e0e66a127c447b80ee7914f3e4f9

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go4-7ce08ca145db0e0e66a127c447b80ee7914f3e4f9.tar

g04-7ce08ca145db0e0e66a127c447b80ee7914f3e4f9\reflectutil\swapper_unsafe_15.go

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>>> azure_go-ansiterm-70b2c90b260171e829f1ebd7c17f600c11858dbe

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>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3

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>>> codegangsta/inject-33e0aa1cb7c019ccc3fbd049a8262a6403d30504

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec

Gocheck - A rich testing framework for Go

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>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071

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>>> go-nfs-client-42fca177a36031d648551c751de1daff5f55d4f0

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>>> gogo_protobuf_proto-6a92c871a8f5333cf106b2cd937567208dbb2b7

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7.tar.gz
protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7.tar
protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/codec/codec.go

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>>> gorilla_websocket-a91eba7f97777409bc2e443f5534d41dd20c5720

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>>> graylog2_go-gelf_gelf-master

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>>> kr_pty-f7ee69f31298ecbe5d2b349c711e2547a617d398

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>>> martini-contrib/render-f13c53d1242f1925d39e80a41bf8530a737796f1

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>>> matryer_resync-4e52c85b294b09a0ac0c103f340e9f87f2e53afe

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>>> mitchellh_mapstructure-5a0325d7fafaac12dda6e7fb8bd222ec1b69875e

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tomb - support for clean goroutine termination in Go.

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>>> tylerb_graceful-d7d7a205e779a4738d38eda0671fff8bfc965f14

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This code is a port of the LibTom C implementation.

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It was heavily inspired by the go blowfish package.

>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_net_http2-a6577fac2d73be281a500b310739095313165611

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>>> x_tools_go_buildutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868

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+build appengine

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interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.
package short

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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
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lib/gssapi/mechglue/g_unseal.c
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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

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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>
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>>> ncurses-6.0-14.ph2

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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>>> openssh-7.5p1-11.ph2

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@version 3.0 (December 2000)

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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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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
-----------------------------

Written by: Philip Hazel
Email local part: ph10
PCRE JUST-IN-TIME COMPILATION SUPPORT
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Written by: Zoltan Herczeg
Email local part: hzmester
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Maciej Soltysiak <solt@dns.toxicfilms.tv>
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SYN signatures. Those signatures work for SYN packets only (duh!).

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Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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Reasonably optimised generic C-code for memcpy on Microblaze
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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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However, keep in mind that all documents are subject to "bit rot".
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mkinstalldirs --- make directory hierarchy
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pmap.c - print process memory mapping
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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I_ _HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

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$Revision: 1.13 $
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Bison implementation for Yacc-like parsers in C

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error.c -- Functions for handling errors.

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A Bison parser, made by GNU Bison 3.0.4.
Bison interface for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

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Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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estream.c - Extended Stream I/O Library

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nspr-4.15.tar.gz./stage/v4.15/src/nspr-4.15.tar
nspr-4.15.tar
spr
spr
pr
src
malloc
prmalloc.c

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nspr-4.15.tar
spr
spr
misc
prcountr.c

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Version 3, 29 June 2007

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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 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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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 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
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

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.>
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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!

--------------- SECTION 5: GNU Lesser General Public License, V2.1 ------------

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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

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.

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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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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
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library". The executable is therefore covered by this License.
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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.)

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----------------- SECTION 21: SIL Open Font License, V1.1 ------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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Portions of the client are based on code at:
https://github.com/google/go-github/

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# License - Operator HTTP API

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The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request
```text
$ curl
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html),

---

Open Source Used In MSX SD-WAN Service Pack 4.0.0 19851
[agent caching](/api/features/caching.html), and
[required ACLs](/api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
  This will default to the datacenter of the agent serving the HTTP request.
  
This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```text
$ curl
  --request PUT
  --data @consul.license
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone"
    ]
  }
}
```
## Resetting the Consul License

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking.html), [consistency modes](/api/features/consistency.html), [agent caching](/api/features/caching.html), and [required ACLs](/api/index.html#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license
```
Open Source Used In MSX SD-WAN Service Pack 4.0.0

```
"customer_id": "0259271d-8ffe-e85e-0830-c0822c1f5f2b",
"installation_id": "*",
"issue_time": "2018-05-21T20:03:35.911567355Z",
"start_time": "2018-05-21T04:00:00Z",
"expiration_time": "2019-05-22T03:59:59.999Z",
"product": "consul",
"flags": {
  "package": "premium"
},
"features": [
  "Automated Backups",
  "Automated Upgrades",
  "Enhanced Read Scalability",
  "Network Segments",
  "Redundancy Zone",
  "Advanced Network Federation"
],
"temporary": false
],
"Warnings": []
```

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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```
@import '../base/components/notice/index';
%notice {
  margin-bottom: 1em;
}
%notice-success::before {
  @extend %with-check-circle-fill-color-icon;
}
%notice-info::before {
  @extend %with-info-circle-fill-color-icon;
}
%notice-highlight::before {
  @extend %with-star-icon;
}
%notice-warning::before {
  @extend %with-alert-triangle-color-icon;
}
%notice-error::before {
  @extend %with-cancel-square-fill-color-icon;
}
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// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadId *int `json:"workloadId,omitempty" xmlrpc:"workloadId,omitempty"
}
KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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m","aleph","Alpha","Amacr","amacr","amalg","AMP","amp","And","and","andand","andslope","andv","ang
ge","angle","angmsd","angmsdab","angmsdac","angmsdad","angmsdaf","angmsdab","angst","angzarr","Aogon","aogon","Aopf","aopf","apacir","apE","ape","apid","apos","ApplyFunction","approx","approxeq","Aring","aring","Ascr","asc","Assign","ast","asy
mp","asympeq","Atilde","atilde","Auml","auml","awconint","awint","backcong","backepsilon","backprime","backs
im","backsimeq","Backslash","Barv","barvee","Barwed","barwed","barwedge","bbrk","bbrkbrk","bcong","Bcy","b
cy","bquo","bquo","beacut","Because","because","bemptv","bepsi","bernou","Bemoullis","Beta","beta","beth","between 
","Bfr","bfr","bigcap","bigcirc","bigcup","bigdotf","bigoplas","bigtimes","bigsqcup","bigstar","bigtriangledu
oned","bigtriangledown","biguplus","bigvee","bigwedge","bkarow","blacklozenge","blacksquare","blacktriangle","blacktriang
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- AEA, IAIAic, EAIAAnV, IAIAakV, EAAAzW, EACA, GAA0W, GAAAjc, KAAAUl, MAIAAIJ, OACA, WAAAky, MA
  AAA7E, GAEA, IAACwG, EADAC, EAAA, IIAAaF, EAEA, GAAAD, EAAA, GACA, IAIAAl, EAIAApC.
- KAAAuL, MAIAAOQ, GAEA, IADAC, EAAAEE, IAAAAL, IAIAAAG, EAAAAsG, EAAA3W, EAEAyB, MACAsV, GAAAD, EACA, OA
  AAnC, KAGA, GAAAmc, IAIAAD, EACA, OAIAAlc, KAEA, IAIAAc, EAAAAC, GAAAtc, KAAA0V, GACA, IAIAAY, GEA
  ACA, QAAA7V, EAEA, EAEAwbA, EAAA2V, EEAAb3V, IAC1C+V, EAAA9Q, MAIAAJf, QAAAEG, EMAA, OAHAY
  V, IACAG, EAAA9Q, MAAAIR, GAAAC, GAEAG, GAGA9B, GAAAhZ, UAAAgb, YAAA, SAAA7G, EAAAsG, EA
  AAIV, GACA, GAAA0V, EAAA, GAAA0G, EAAAsA, QAAA4hc, KAAAuL, MAIAAIJ, OACA, OAIAAnC, KAEA, I
  AKAc, EALAM, EAAA1V, EAAA, IAIAAKV, EAAAzwE, EACA, GAAAIxG, GAAAxc, KAAAuL, MAIAAIJ, OACA, OA
  AAc, KAI, GAAAC, GAAAEG, GACA, JAAAI, EAIAE, AIAApc, KAAAuL, MAIAAIJ, R, GAEA, IADAN, EAAAEE, KA
  AAG, YA A7G, EAAAsG, EAAAlw, EAAAyB, MACAsV, GAAAI, IAIAAc, KAAAuL, MAIAAIJ, OAAA, EACA, OAAAnC, K
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  AA0K, EAAAxV, EACA, WAIA+V, EAAK, SAAA1K, EAAAzlG, GACA, IAIAASF, EAAAzF, IAAAI4W, EAAAc, KA
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  AcIb, EAAAaA, EAAAL, EAAA3W, GAAA+, V, GACAIB, EAAA3X, IAC1CA2X, EAAA3X, GAAE, k
  BACA, QACA, GAAAKW, EACA, IAAAI, APA, EAAyoA, YAIAy, GACA, OAAAzy, EAYEoY, EAAA, KEA, GAAwB, IAIAAC,
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GAAAnS, KAAA0G, MACA, IAAaArF, KAEA, OAdaArB, KAAA2G, UAAA, SAAA2B, EAAAD, GAAAsChH, EAAAgH,GAAAC, IACiCjH, GAGAoB, aAAA, WAEA, OAAAh1R, GAAAHU, KAAA2G, WAAwJ, eAGAkd, aAAA, WAEA, OAAAhIC, GAAxgB, EAAAhE, WAAAAnjB, WAAAAnjB, OAGA2mB, MAAA, WAEA, OAAAhvb, GAAAPB, EAAAhE, WAAA mjB, WAAAAnjB, OAGA8J, SAAA, WACA, WAAAawV, GAAAtf, OAGAmJ, MAAA, WACA, OAAAhF, EAAAnE, WA AA4J, eACA5F, EAAAhE, WAAwJ, aACAxJ, KAAA8J, YAAGc, QAAbE, QAAAb, WAEA, OAAAhxB, GAAAPb, EAAAhE, WAAAmjB, WAAAAnjB, OGAAnI, OAAA, WAEA, OAAAhI, GAAAJjW, EAAAhE, WAAA AnjB, OAAAAnjB, OMAA+J, SAAA, WACA, oBAGAQ, WAAA, SAAAmb, GACA, WAAA9c, KAAA0G, KACAgf, EAAASf, EAAE4L JAAA, IAAAJB, KAAAAnJ, QAAAnJ, IAAAhM, KAAA6mB, kBAAAC, KAAA, UAAAhH, GMAMAfi, OAAA, WACA ,ONAA3E, GAAAPb, KAp/BA, SAAA+i, EAAYaS, GCAA, JAAA+, FEAAnvd, EAAA+E, GACAwL, GAAxAL, GAAge, OAAAvL, GAAAA0L, IAAAA, IAAAJb, EAAAAe, GAAQA, OPAAzE, EAAAyE, GAIOIZJ, IACPjZ, EAAAvE, EAAAnE, IAJ AA, EAAAIz, EACAA7X, GAAAPb, GACAuB, GAAAtG, MAAA, G2L, QAAbA5U, UAAIA1, IACkpw, OAAA, SAAAxP, G AAuB, WAAA, EAAAnA5B, OAE5B, OAAA6N, GAAAnJ, OAAA, OAAAnG, EAGA, OAAAnwL, EAAAnI, OAAA, OAA A, CAA, IAAAlk, EAAAAsS, EAAAA, GACA, OAAAA, GAAAgY, IAAAJe, GACAYC, WAAAnV, GAAAnE, EAAgB, IACA7B, EAAAA4E, IA AA5E, EAAAlbG, GACA, OAAAAA, IEAA, IAAAC, EAAA, IAAAnb, GAAAJj, GAKBA, OAAjB, N, EAAAzF, IAAAzd, aACkF, EAAAA4E, KACLJe, IAAAm, aEEAmJ, IAAAC, SAAA, IAACxgB, KAAAAN6, EAAnkJN, OACA, SAAAFbE, EAAA/d, GACA, QAANC3, IAAAnGB, EAAA, CACA, IAAAnJgB, EAAA0C, EAAA1C, KACA, QAADd, IAAAC, EAC A, OAAAnYgB, EAAAAzgB, JIAA, GAAEGuB, EAAw8BqB, GAADApB, KADw8sBd, EAAA+C, KAAA++, JUAAA, MAAsB, qF, SAAA, SAAAnS, GACA, OAAAA5P, KAAAAnIb, KAAA, SAAAnE, e, GAAyC, OAAA+A+, JIAAAAJ, EAAAAwM, MAGzC/B, QAACC, WACA, OAAAn7M, KAAA++, WAAA, D, IAAAnGmB, MAAA, SAAAOo, EAAAAj, IACA4N, GAAAAnS, KAAA0G, MAAAC, IAAAJ2B, GAAA, EOAO, OANAAnb, KAAA2G, UAAA, SAAAn2B, EAAAdd, EAAA5H, GACA, IAAAJf ,EAAAAsF, KAAAnuF, EAAAAxX, EAAADd, EAAnA5B, GAAAPB, GAAA5H, GAAAOAd4mB, GAAA, GACA, IAGAA, GAAAgVp, OAAA, SAAAOoL, EAAAAJj, GACA, OAAASc, GAAAPB, KAAAAnG, GAAgB, KAAAkkB, GAAAgB, EAAAaG, KAAAgaH, KAAA, GAAAwH, KAAA, S AAAApH, EAAAAAJj, EAAAQtG, GACA, IAAAnD, EAAAAm, KAAAAnb, UAAAnhE, IAAAAnJj, GACA, OAAAnT, IAAA, GAA Akd, GAGAqD, QAAb, SAAAvgV, EAAAA1H, GAEA, OAADDn3, GAAAnS, KAAA0G, MACA1G, KAAA2G, UAAAmZ, EAAAAnH, EAAAAM3, KACA, IAAAnHJ, GAVAAV, KAAA, SAAwW, GACAfV, GAAAAnS, KAAA0G, MACA+gB, O AAAhBH, IAAAnGhB, EAAA, EAAA, EAAA, IACA, IAAAAC, EAAA, GACA, GACA, GAAA, OAAJaJ, nB, KAAA2G, UAAA, SAAAl2B, GACAqF, GAAADd, EAAADd, EAAAA, EAAADd, EACA, GACA, OAAAA, GAAAfP, QAQA7B, IAAA6B, IAAAYB, WA AA, KAAEA2d, GACAJe, KAAA, WACA, OAAAnzL, KAAA++, K, WAAAAd, JGAAof, IAAA, SAAAxP, IEAAAAq, IEAAAAK, GACA, OAAASc, GAAAPb, KAAA6f, GAAA7f, KAAAKV, EAAA4K, KAGA2B, OAAA, SAAAnM, GAEAAC, EAAAAH, GA EA, IAIAAgI, EACAC, EACA, OAAbB5V, GAAAnS, KAAA0G, MAGA4D, UAAJj, OAAA, EACAO1B, GAAA, EAAE D, EAAAD, EAAEAn7nB, KAAA2G, UAAA, SAAAb2B, EAAAD, EAAAAH, GACAsBn, GACAA, GAAA, EACAD, EAA AxF, GAEAf, EAAAF, EAAAnM, B, KAAAuf, EAAAgI, EAAAXF, EAAADd, EAAAA5H, KAGAqM, GAGAE, YAAA, SA AJ, EAAAAE, EAAAAH, GACA, IAAAnM, EAAAJoB, KAAAwJ, aAAAnP, B, UACA, OAAAnuO, EAAAAgV, OAAA3P, MA AAmW, EAAA3d, YQAAYO, QAAb, WACA, OAAAnGw, P, B, KAAAnGgB, GAAAgB, MAAA, KAGAwD, MAAA A, SAAAnD0, EAAAC, GACA, OAAAib, GAAAAPb, KAAAqG, B, GAAAqP, B, KAAAkJH, EAAAC, GACAA, GAAA, GAKAbG, K AAA, SAAAnjC, CAAEEAJj, GAAAn9F, KAAA8N, MAAAOa, GAAAhI, GAAAJJ, IAJAGLj, KAAA, SAAAC, GACA, OAAAlsN, GAAAPiB, KAAAgv, GAAAhV, KAAA8U, KAGA0G, OAAA, WACA, OAAAnn, B, KAAA++K, WAAArD, IA MAyygB, QAQQ, WACA, OAAAnob, KAAAnwD, MAAA, OAAAg4KB, QAQQ, WACA, YAAAnhJb, IAAAzG, KAAA0G ,KAAA, IAAAJ, KAAA0G, MAAAAGA1G, KAAAAnMB, KAAAwAiF, YAGJHFM, MAAA, SAAAn+J, EAAAJj, GACA, OAAAvZ, EACA2Z, EAAAgB, KAAAnF, QAQA2O, OAAAoA, EAAAAlGJ, GAAAgF9F, OAAlqgB, QAQQ, SAAAC, EAAAxL, GACA, OAA10C, SAAA, WAAAuf, EAAAxI, GACA, IAAAyJ, EAAAAw, KAAAgD, YAQA, QAPAzm, EAAAAp C, UAAA, SAAAb2B, EAAADd, GACAgS, EAAApV, OACAmV, EAAAAhN, B, KAAAnuf, EAAAXX, EAAAAd, EAAAU, GACA, EACA, SAAAAnE, GAAAsB, OAAA, EAAAnJ, GAMAgiB8a, EAAAAht, cAiOcAT, CAAxOb, KAAAsOb, EAAAsxI, IGAAsS, OAAA, SAAyC, GACA, OAAAdC, SAAAAnC, GAAAqG, IAJAGrG, SAAA, WACA, IAAAZJ, EAAALKACA, GAAA+i, EAAAOB, OAAE, WAAAnA, GAAAvc, EAAAnb, QAAE, IAAAgE, EAAAlf, EAAlJ, QAAn0D, IAAAb6J, IAAAb9e, eAEA, OADA6c, EAAAfhh, fAAA, WAAkD, OAAAv, EAAASJ, SACjDSf, GAGAE, UAAA, SAAAxA, LEEAAJj, GACA, OAAAs9f, KAAAXO, OAAAoQ, GAAAhI, GAAAJ, IAGAYH, UAAA, SAAAhR, ILEAAJJ, EAAAtQ, GACA, IAAAx oZ, EAAApZ, EAAOA, OANAxP, KAAA2G, UAAA, SAAAb2B, EAAADd, EAAAA5H, GACA, GAAAyF, EAAASf, KAAAu
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```javascript
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 = {};

  // Boolean references, Rough equivalent of `bool &`.
  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 OwnerID() {
    return 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 resolveIndex(index, size, defaultIndex) {
    return index === undefined ?
      defaultIndex :
        index < 0 ?
          Math.max(0, size + index) :
          size === undefined ?
            index :
            Math.min(size,
              index);
  }

  // A function which returns a value representing an 'owner' for transient writes
  // to tries. The return value will only ever equal itself, and will not
  // the return of any subsequent call of this function.
  function OwnerID() {
    return true;
  }

  function __iterateUncached(fn, reverse) {
    return function() {
      return true;
    };
  }

  function __iteratorUncached(type, reverse) {
    return function() {
      return true;
    };
  }
```

STRING_HASH_CACHE_MIN_STRLEN = 16;
STRING_HASH_CACHE_MAX_SIZE = 255;
// This is the hash from JVM/Java. The hash code for a string is computed as:
// s[0]*31^n-(n-1) + s[1] + s[(n-2)] + ... + s[n-1].
// where if i is the ith character of the string and n is the length of the string.
// We "mod" the result to make it between 0 (inclusive) and 2^31 (exclusive) by dropping high bits.

function hashString(string) {
  var hash = 0;
  for (var ii = 0; ii < string.length; ii++) {
    hash = 31 * hash + string.charCodeAt(ii) | 0;
  }
  return 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 = getIENodeHash(obj);
    if (hash !== undefined) {
      return hash;
    }

    hash = ++objHashUID;
    if (objHashUID & 0x40000000) {
      objHashUID = 0;
    }
  }

  if (usingWeakMap) {
    weakMap.set(obj, hash);
  } else if (isExtensible !== undefined && isExtensible(obj) === false) {
    throw new Error('Non-extensible objects are not allowed as keys.');
  } else if (canDefineProperty) {
    Object.defineProperty(obj, UID_HASH_KEY, {
      'enumerable': false,
      'configurable': false,
      'writable': false,
      'value': hash
    });
    obj[UID_HASH_KEY] = hash;
  } else if (obj.nodeType !== undefined) {
    obj[UID_HASH_KEY] = hash;
  } else {
    throw new Error('Unable to set a non-enumerable property on object.');
  }

  return hash;
}

// @pragma Construction

function Map(value) {
  return value === null || value === undefined ? emptyMap() : isMap(value) && !isOrdered(value) ? value : emptyMap().withMutations(function(map) {
    var iter = KeyedIterable(value);
    assertNotInfinite(iter.size);
    iter.forEach(function(value) {
      map.set(key, value);
    });
  });
}

// Get references to ES5 object methods.
var isExtensible = Object.isExtensible;
var canDefineProperty = (function() {
  try {
    Object.defineProperty({}, '@', {});
    return true;
  } catch (e) {
    return false;
  }
}());

// IE has a 'uniqueID' property on DOM nodes. We can construct the hash from it
// and avoid memory leaks from the IE cloneNode bug.
function getIENodeHash(node) {
  if (node && node.nodeType > 0) {
    switch (node.nodeType) {
      case 1: // Element
        return node.uniqueID;
      case 9: // Document
        return node.documentElement && node.documentElement.uniqueID;
    }
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    switch (node.nodeType) {
      case 1: // Element
        return node.uniqueID;
      case 9: // Document
        return node.documentElement && node.documentElement.uniqueID;
    }
  }
}
function isMap(maybeMap) { return maybeMap != null && maybeMap.isMap; }
(var ii = 0, len = entries.length; ii < len; ii++) {
    var var removed = value === NOT_SET;
    var 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;
}

    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 var exists = idx < len;
        if (exists) {
            entries[idx] = [key, value];
        } else {
            newEntries.push([key, value]);
        }
        if (isEditable) {
            this.entries = newEntries;
        }
        return this;
    }

    ArrayMapNode.prototype.get = function(ownerID, shift, keyHash, key, notSetValue) {
        var keyHash = hash(key);
        var var bit = (1 << ((shift === 0 ? keyHash : keyHash >>> shift) & MASK));
        var bitmap = this.bitmap;
        return (bitmap & bit) === 0 ? notSetValue : this.nodes[popCount(bitmap & (bit - 1))].get(shift + SHIFT, keyHash, key, notSetValue);
    }

    ArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
        if (keyHash === undefined) {
            keyHash = hash(key);
        }
        var keyHashFrag = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
        var bit = 1 << keyHashFrag;
        var bitmap = this.bitmap;
        var exists = (bitmap & bit) !== 0;
        var nodes = this.nodes;
        var node = nodes[popCount(bitmap & (bit - 1));
        if (exists) {
            return this;
        }

        var newNode = updateNode(node, ownerID, shift + SHIFT, keyHash, key, value, didChangeSize, didAlter);
        if (newNode === node) {
            return this;
        }

        var newCount = this.count;
        if (exists) {
            newCount++;
        } else if (isLeafNode(newNode) && !isLeafNode(this.nodes[idx ^ 1])) {
            return packNodes(ownerID, this.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 this;
    }

    function BitmapIndexedNode(ownerID, bitmap, nodes) {
        this.ownerID = ownerID;
        this.bitmap = bitmap;
        this.nodes = nodes;
    }

    BitmapIndexedNode.prototype.get = function(shift, keyHash, key, notSetValue) {
        if (keyHash === undefined) {
            keyHash = hash(key);
        }
        var keyHash = hash(key);
        var var bit = (1 << ((shift === 0 ? keyHash : keyHash >>> shift) & MASK));
        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) {
        if (keyHash === undefined) {
            keyHash = hash(key);
        }
        var keyHashFrag = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
        var bit = 1 << keyHashFrag;
        var bitmap = this.bitmap;
        var exists = (bitmap & bit) !== 0;
        var nodes = this.nodes;
        var node = nodes[popCount(bitmap & (bit - 1));
        if (exists) {
            return this;
        }

        var newNode = updateNode(node, ownerID, shift + SHIFT, keyHash, key, value, didChangeSize, didAlter);
        if (newNode === node) {
            return this;
        }

        var newCount = this.count;
        if (exists) {
            newCount--;
        } else if (isLeafNode(newNode) && nodes.length === 1) {
            return expandNodes(ownerID, nodes, bitmap, newCount);
        }

        var isEditable = ownerID && ownerID === this.ownerID;
        var newNodes = expandIn(nodes, bitmap, (bit ^ 1));
        if (isEditable) {
            this.count = newCount;
            this.nodes = newNodes;
        }
        return this;
    }

    function HashArrayMapNode(ownerID, count, nodes) {
        this.ownerID = ownerID;
        this.count = count;
        this.nodes = nodes;
    }

    HashArrayMapNode.prototype.get = function(shift, keyHash, key, notSetValue) {
        if (keyHash === undefined) {
            keyHash = hash(key);
        }
        var idx = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
        var var id = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
        var var id = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
        var var node = this.nodes[idx];
        return node.get(shift + SHIFT, keyHash, key, notSetValue);
    }

    HashArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
        if (keyHash === undefined) {
            keyHash = hash(key);
        }
        var keyHash = hash(key);
        var var id = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
        var var node = this.nodes[idx];
        var var removed = value === NOT_SET;
        var var nodes = this.nodes;
        var 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 (isEditable) {
            this.count = newCount;
            this.nodes = newNodes;
        }
        return this;
    }
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])) {
            var entry = entries[ii][1];
            return is(entry, key) ? entry[1] : notSetValue;
        }
    }
    return undefined;
}

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 keyMatch = is(key, this.entry[0]);
    if (keyMatch ? value === this.entry[1] : removed) {
        return this;
    }
    SetRef(didChangeSize);
    return mergeIntoNode(this, ownerID, shift, keyHash, [key, value]);
}

Map.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.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;
}

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    if (keyHash === undefined) {
        keyHash = hash(key);
    }
    var removed = value === NOT_SET;
    if (keyHash !== this.keyHash) {
        if (removed) {
            return this;
        }
        SetRef(didAlter);
    }
    var keyMatch = is(key, this.entry[0]);
    if (keyMatch ? value === this.entry[1] : removed) {
        return this;
    }
    SetRef(didChangeSize);
    return mergeIntoNode(this, ownerID, shift, keyHash, [key, value]);
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    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;
}

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    if (keyHash === undefined) {
        keyHash = hash(key);
    }
    var removed = value === NOT_SET;
    if (keyHash !== this.keyHash) {
        if (removed) {
            return this;
        }
        SetRef(didAlter);
    }
    var keyMatch = is(key, this.entry[0]);
    if (keyMatch ? value === this.entry[1] : removed) {
        return this;
    }
    SetRef(didChangeSize);
    return mergeIntoNode(this, ownerID, shift, keyHash, [key, value]);
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    if (keyHash !== this.keyHash) {
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            return this;
        }
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        keyHash = hash(key);
    }
    var removed = value === NOT_SET;
    if (keyHash !== this.keyHash) {
        if (removed) {
            return this;
        }
        SetRef(didAlter);
    }
    var keyMatch = is(key, this.entry[0]);
    if (keyMatch ? value === this.entry[1] : removed) {
        return this;
    }
    SetRef(didChangeSize);
    return mergeIntoNode(this, ownerID, shift, keyHash, [key, value]);
}
map.__hash = hash;
    map.__altered = false;
    return map;
  }

  var EMPTY_MAP;
  function emptyMap(){
    return EMPTY_MAP || (EMPTY_MAP = makeMap(0));
  }

  function updateMap(map, k, v) {
    var
    newRoot;
    var newSize;
    if (!map._root) {
      if (v === NOT_SET) {
        return map;
      }
      newSize = 1;
      newRoot = new ArrayMapNode(map.__ownerID, [[k, v]]); 
    } else {
      var didChangeSize = MakeRef(CHANGE_LENGTH);
      var didAlter = MakeRef(DID_ALTER);
      newRoot = updateNode(map._root, map.__ownerID, 0, undefined, didChangeSize, didAlter); 
    } if (didAlter.value) { 
        return map;
    }
    newSize = map.size + (didChangeSize.value ? v === NOT_SET ? -1 : 1 : 0);
    if (map.__ownerID) {
      map.size = newSize;
      map._root = newRight;
      map.__hash = undefined;
      map.__altered = true;
      return map;
    }
    return newRight ? makeMap(newSize, newRoot) : emptyMap();
  }

  function updateNode(node, ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
    if (value === NOT_SET) {
      return node;
    }
    SetRef(didAlter);
    SetRef(didChangeSize);
    return new ValueNode(ownerID, keyHash, [key, value]);
  }

  function isLeafNode(node) {
    return node.constructor === ValueNode || node.constructor === HashCollisionNode;
  }

  function mergeIntoNode(node, ownerID, shift, keyHash, entry) {
    if (node.keyHash === keyHash) {
      return new HashCollisionNode(ownerID, keyHash, [node.entry, entry]);
    }
    var idx1 = (shift === 0 ? node.keyHash : node.keyHash >>> shift) & MASK;
    var idx2 = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
    var newNode;
    var nodes = idx1 === idx2 ?
      [mergeIntoNode(node, ownerID, shift + SHIFT, keyHash, entry)] :
      ((newNode = new ValueNode(ownerID, keyHash, entry)), idx1 < idx2 ? [node, newNode] : [newNode, node]);
    return new BitmapIndexedNode(ownerID, (1 << idx1) | (1 << idx2), nodes);
  }

  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, count + 1, 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) {
    }
    return new HashArrayMapNode(ownerID, count + 1, expandedNodes);
  }

  function deepMerger(args, value, key) {
    return is(args, value) ? args : value;
  }

  function deepMergerWith(merger) {
    return function(existing, value, key) {
      if (existing && existing.mergeDeepWith && isIterable(value)) {
        return existing.mergeDeepWith(merger, value, key);
      }
      return existing.mergeDeepWith(merger, value, key);
    };
  }

  function mergeIntoCollectionWith(collection, merger, iters) {
    if (collection.size === 0) {
      return collection;
    }
    return collection.withMutations(function(collection) {
      var mergeIntoMap = merger ?
        function(value, key) {
          collection.set(key, value);
        } :
        function(value, key) {
          for (var ii = 0; ii < iters.length; ii++) {
            var iter = iters[ii].forEach(mergeIntoMap);
          }
        };
      for (var ii = 0; ii < iters.length; ii++) {
        iters[ii].forEach(mergeIntoMap);
      }
    });
  }
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```javascript
List.prototype.slice = function(begin, end) {
  var size = this.size;
  if (wholeSlice(begin, end, 0, size)) {
    return emptyList();
  }
  var newLen = array.length + 1;
  if (canEdit && & idx + 1 === newLen) {
    array[iter[i]] = val;
    return array;
  }
  return array = new Array(newLen);
  var after = 0;
  for (var ii = 0; ii < newLen; ii++) {
    if (ii === idx) {
      newArray[ii] = val;
      after = 1;
    } else {
      newArray[ii] = array[ii + after];
    }
  }
  return newArray;
}

List.prototype.mergeWith = function(merger) {
  var iters = SLICE$0.call(arguments, 1);
  return mergeIntoListWith(this, deepMergerWith(merger), iters);
}

List.prototype.merge = function(/*...iters*/) {
  return mergeIntoListWith(this, undefined, arguments);
}

List.prototype.mergeDeep = function(merger) {
  var iters = SLICE$0.call(arguments, 1);
  return mergeIntoListWith(this, merger, iters);
}

List.prototype.mergeDeepWith = function(merger) {
  var iters = SLICE$0.call(arguments, 1);
  return mergeIntoListWith(this, deepMergerWith(merger), iters);
}

List.prototype.clear = function() {
  if (this.size === 0) {
    return this;
  }
  if (this.__ownerID) {
    this.__hash = undefined;
    this.__altered = true;
    return this;
  }
  var iter = IndexedIterable(value);
  var size = iter.size;
  if (size === 0) {
    return empty;
  }
  if (value === null || value === undefined) {
    return empty;
  }
  if (isList(value)) {
    return value;
  }
  return createList(List, IndexedCollection);
}
```

```javascript
createClass(List, IndexedCollection); // @pragma Construction

function List(value) {
  var empty = emptyList();
  var newArray;
  var after = 0;
  for (var ii = 0; ii < newLen; ii++) {
    if (ii === idx) {
      newArray[ii] = val;
      after = -1;
    } else {
      newArray[ii] = array[ii + after];
    }
  }
  return newArray;
}

function spliceOut(array, idx, canEdit) {
  var newLen = array.length - 1;
  if (canEdit && idx === newLen) {
    array.pop();
    return array;
  }
  var newArray = new Array(newLen);
  var after = 0;
  for (var ii = 0; ii < newLen; ii++) {
    if (ii === idx) {
      newArray[iii] = val;
      after = 1;
    } else {
      newArray[ii] = array[ii + after];
    }
  }
  return newArray;
}

function spliceIn(array, idx, val, canEdit) {
  var newLen = array.length + 1;
  if (canEdit && idx + 1 === newLen) {
    array[idx] = val;
    return array;
  }
  var newArray = new Array(newLen);
  var after = 0;
  for (var ii = 0; ii < newLen; ii++) {
    if (ii === idx) {
      newArray[iii] = val;
      after = 1;
    } else {
      newArray[ii] = array[ii + after];
    }
  }
  return newArray;
}
```

```javascript
function popCount(x) {
  x = x - ((x >> 1) & 0x55555555);
  x = x & (x >> 2);
  x = x & (x >> 4);
  x = x & (x >> 8);
  x = x & (x >> 16);
  return x & 0x7f;
}
```

```javascript
var values = arguments;
var oldSize = this.size;
var newValue = arguments;
var existing = this;
var nextExisting = isNotSet ? NOT_SET : existing.get(key, NOT_SET);
var nextUpdated = updateInDeepMap(existing, keyPathIter, notSetValue, updater);
var returnList = returnList === NOT_SET && existing.get(keyPathIter, notSetValue, updater);
var returnNextUpdated = returnNextUpdated === NOT_SET ? existing.remove(key) && (isNotSet ? emptyMap() : existing).set(key, nextUpdated) : existing.get(key, NOT_SET);
var returnNextExisting = returnNextExisting === NOT_SET ? existing.get(key) && (isNotSet ? emptyMap() : existing).set(key, nextUpdated) : existing.get(key);
if (returnNextExisting && returnNextUpdated !== NOT_SET) {
  return newValue;
}
```
size))

    List.prototype.__iterator = function(type, reverse) {
      var index = 0;
      var values = iterateList(this, reverse);
      var 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@@';

    var ListPrototype = List.prototype;
    ListPrototype[IS_LIST_SENTINEL] = true;
    ListPrototype[DELETE] = ListPrototype.remove;
    ListPrototype.setIn = MapPrototype.setIn;
    ListPrototype.deleteIn = MapPrototype.remove;
    ListPrototype.setIn = MapPrototype.setIn;
    ListPrototype.update = MapPrototype.update;
    ListPrototype.merge = MapPrototype.merge;
    ListPrototype.mergeDeep = MapPrototype.mergeDeep;
    ListPrototype.withMutations = MapPrototype.withMutations;
    ListPrototype.asMutable = MapPrototype.asMutable;
    ListPrototype.asImmutable = MapPrototype.asImmutable;
    ListPrototype.wasAltered = MapPrototype.wasAltered;
    function VNode(array, ownerID) {
      this.array = array;
      this.ownerID = ownerID;
    }

    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 ?
        tail && tail.array : node && node.array;
      var from = offset > left ? 0 : left - offset;
      var to = right - offset;
      if (to > SIZE) {
        to = SIZE;
      }
      return function() {
        if (from == to) {
          return DONE;
        }
        var idx = reverse ? --to : from++;
        return array[idx];
      };
    }

    function iterateNode(node, level, offset) {
      var root = list._root;
      var returnNodeOrLeaf = function(ownerID) {
        if (ownerID !== this._ownerID) {
          return DONE;
        }
        var level = this._level;
        var return value = DONE ?
          iteratorDone() :
          iteratorValue(type, index++, value);
    };

    function resolveBegin(begin, size) {
      var index = 0;
      var values = iterateList(this, reverse);
      return new Iterator(function() {
        var fn = (fn(value, index++, this) !== false) ?
          break :
          iteratorValue(type, index++, value);
      });
    }

    function resolveEnd(end, size) {
      var index = 0;
      var values = iterateList(this, reverse);
      return null;
    }

    function makeList(origin, capacity, level, root, tail, ownerID) {
      return new VNode(new Array(capacity), ownerID);
    }
node = node.array[idx] = editableVNode(node.array[idx], owner);

node.array[oldTailOffset >>> SHIFT] &= 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 >= newRoot) {
  var beginIndex = (newOrigin >>> newLevel) & MASK;
  node.array[beginIndex] = editableVNode(node.array[beginIndex], owner);
}

node.array[(oldTailOffset >>> SHIFT) & MASK] = oldTail;

// If the new origin has been trimmed, garbage collect.
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;
    }
    var newLevel = newTail = 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, newOrigin - offsetShift);
    }
    // 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);
      offsetShift = 0;
    }
  }

  // If the new origin is within the tail, then we do not need a root.
  if (newOrigin >= newRoot) {
    var beginIndex = (newOrigin >>> newLevel) & MASK;
    node.array[beginIndex] = editableVNode(node.array[beginIndex], owner);
  }

  // If the new origin has been trimmed, garbage collect.
  else if (newOrigin > oldOrigin || newTailOffset < oldTailOffset) {
    offsetShift = 0;
  }
}

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._list = 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(v, k)});
    });
}

OrderedMap.of = function(/*...values*/) {
  return this(arguments);
}

OrderedMap.prototype.toString = function() {
  return this.__toString('OrderedMap {');
}

OrderedMap.prototype.clear = function() {
  if (this.size === 0) {
    return this;
  }
  if (this.__ownerID) {
    this.size = 0;
    this._map.clear();
    this._list.clear();
  }
  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 this$0 = this;
  this._list._iterate(function(entry) {
    return entry & fn(entry[1], entry[0], this$0);
  }, reverse);
}

OrderedMap.prototype._iterator = function(type, reverse) {
  return this._list.fromEntrySeq()._iterator(type, reverse);
}

OrderedMap.prototype._ensureOwner = function(ownerID) {
  if (ownerID === this._ownerID) {
    return this;
  }
  var newMap = this._map._ensureOwner(ownerID);
  var newNewList = this._list._ensureOwner(ownerID);
  if (ownerID) {
    this._ownerID = ownerID;
    this._map = newMap;
    this._list = newNewList;
  }
  return makeOrderedMap(newMap, newNewList, ownerID, this._hash);
}

function isOrderedMap(maybeOrderedMap) {
  return isMap(maybeOrderedMap) && isOrdered(maybeOrderedMap);
}

OrderedMap.isOrderedMap = isOrderedMap;

OrderedMap.prototype[IS_ORDERED_SENTINEL] = true;

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;
}

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 = i !== 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 = newMap.set(k, list.size);
      newList = list.set(list.size, [k, v]);
    }
  }
  if (omap.__ownerID) {
    omap.size = newMap.size;
    omap._map = newMap;
    omap._list = newList;
    omap.__hash = undefined;
    return omap;
  }
  return makeOrderedMap(newMap, newList);
}

createClass(ToKeyedSequence, KeyedSeq);

  function ToKeyedSequence(indexed, useKeys) {
    this._iter = indexed;
    this._useKeys = useKeys;
    this.size = indexed.size;
  }

  ToKeyedSequence.prototype.get = function(key, notSetValue) {
    return this._iter.get(key, notSetValue);
  }

  ToKeyedSequence.prototype.has = function(key) {
    return this._iter.has(key);
  }

  ToKeyedSequence.prototype.valueSeq = function() {
    return this._iter.valueSeq();
  }

  ToKeyedSequence.prototype.reverse = function() {
    return this._iter.get(key, notSetValue);
  }

  ToKeyedSequence.prototype.__iterate = function(fn, reverse) {var this$0 = this;
    var iterations = 0;
    return this._iter.__iterate(function(v) {return fn(v, iterations++, this$0)}, reverse);
  }

  ToKeyedSequence.prototype.__iterator = function(type, reverse) {
    var iterator = this._iter.__iterator(ITERATE_VALUES, reverse);
    var step = iterator.next();
    return step.done ? step : iteratorValue(type, reverse ? --ii : ++ii, step.value, step);
  }

  ToKeyedSequence.prototype[IS_ORDERED_SENTINEL] = true;

  function ToIndexedSequence(indexed) {
    this._iter = indexed;
    this.size = indexed.size;
  }

  ToIndexedSequence.prototype.includes = function(key) {
    return this._iter.includes(key);
  }

  ToIndexedSequence.prototype.includes = function(value) {
    return this._iter.includes(value);
  }

  ToIndexedSequence.prototype.__iterate = function(fn, reverse) {
    var this$0 = this;
    var ii = resolveSize(this) : 0;
    var var iterator = this._iter__iterator(ITERATE_VALUES, reverse);
    var ii = resolveSize(this) : 0;
    var step = iterator.next();
    return step.done ? step : iteratorValue(type, reverse ? --ii : ++ii, step.value, step);
  }

  ToIndexedSequence.prototype.__iterator = function(type, reverse) {
    var var iterator = this._iter__iterator(ITERATE_VALUES, reverse);
    var iterations = 0;
    return new Iterator(function() {
      var var step = iterator.next();
      return step.done ? step : iteratorValue(type, iterations++, step.value, step);
    });

  ToSetSequence.prototype.includes = function(key) {
    return this._iter.includes(key);
  }

  ToSetSequence.prototype.includes = function(value) {
    return this._iter.includes(value);
  }

  ToSetSequence.prototype.__iterate = function(fn, reverse) {
    var this$0 = this;
    var var iterator = this._iter__iterator(ITERATE_VALUES, reverse);
    var var step = iterator.next();
    return step.done ? step : iteratorValue(type, step.value, step.value, step);
  }
```

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) {
    // Check if entry exists first so array access
    // doesn't throw for holes
    // in the parent iteration.
    if (entry) {
      validateEntry(entry);
      var indexedIterable = isIterable(entry);
      return fn(entry, indexedIterable ? entry.get(0) : entry[0],
        indexedIterable ? entry.get(1) : entry[1], reverse);
    }
  });
}

FromEntriesSequence.prototype._iterator = function(type, reverse) {
  var iter = this._iter;
  return new Iterator(function() {
    var step = iter.next();
    if (step.done) {
      return step;
    }
    var entry = step.value;
    // Check if entry exists first so array access doesn't throw for holes
    // in the parent iteration.
    if (entry) {
      validateEntry(entry);
      var indexedIterable = isIterable(entry);
      return iteratorValue(type, indexedIterable ? entry.get(0) : entry[0],
        indexedIterable ? entry.get(1) : entry[1], step);
    }
  });
}

ToIndexedSequence.prototype.cacheResult =
ToKeyedSequence.prototype.cacheResult =
ToSetSequence.prototype.cacheResult =

flipFactory(iterable) {
  var flipSequence = makeSequence(iterable);
  flipSequence._iter = iterable;
  flipSequence.size = iterable.size;
  flipSequence.flip = function() {
    return iterable;
  }
  flipSequence.reverse = function() {
    // super.reverse()
    return iterable.reverse.apply(this);
  }
  flipSequence._iterateUncached = function(fn, reverse) {
    return iterable._iterate(function(v, k) {
      return fn(k, v, this$0) !== false,
    });
  }
  flipSequence._iteratorUncached = function(type, reverse) {
    if (type === ITERATE_ENTRIES) {
      var iterator = iterable.__iterator(type, reverse);
      return new Iterator(function() {
        var step = iterator.next();
        if (step.done) {
          return step;
        }
        var entry = step.value;
        var key = entry[0];
        return iteratorValue(type, key, entry[1], step);
      });
    }
    return iterable.__iterator(
      type === ITERATE_VALUES
        ? ITERATE_KEYS : ITERATE_VALUES
    );
  }
}

mapFactory(iterable, mapper, context) {
  var mappedSequence = makeSequence(iterable);
  mappedSequence.size = iterable.size;
  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) {
    return iterable._iterate(function(v, k) {
      return fn(mapper.call(context, v, k, c), k, this$0) !== false,
    });
  }
  mappedSequence._iteratorUncached = function(type, reverse) {
    if (type === ITERATE_ENTRIES) {
      var iterator = iterable._iterator(type, reverse);
      return new Iterator(function() {
        var step = iterator.next();
        if (step.done) {
          return step;
        }
        var entry = step.value;
        var key = entry[0];
        return iteratorValue(type, key, entry[1], step);
      });
    }
    return iterable.__iterator(
      type === ITERATE_VALUES
        ? ITERATE_KEYS : ITERATE_VALUES
    );
  }
}

reverseFactory(iterable, useKeys) {
  var reversedSequence = makeSequence(iterable);
  reversedSequence.size = iterable.size;
  reversedSequence.reverse = function() {
    return iterable;
  }
  reversedSequence.get = function(key, notSetValue) {
    return iterable.get(useKeys ? key : -1 - key,
      notSetValue);
  }
  reversedSequence._iterateUncached = function(fn, reverse) {
    return iterable._iterate(function(v, k) {
      return fn(v, k, this$0), reverse;
    });
  }
  reversedSequence._iteratorUncached = function(type, reverse) {
    if (iterable.flip) {
      reversedSequence.flip = function() {
        return iterable.flip;
      }
    }
    reversedSequence.reverse = function() {
      return iterable.flip();
    }
  }
}

reversedSequence.size = iterable.size;
reversedSequence.reverse = function() {
  return iterable;
}
reversedSequence.get = function(key, notSetValue) {
  return iterable.get(useKeys ? key : -1 - key,
    notSetValue);
}
reversedSequence._iterateUncached = function(fn, reverse) {
  return iterable._iterate(function(v, k) {
    return fn(v, k, this$0), reverse;
  });
}
reversedSequence._iteratorUncached = function(type, reverse) {
  if (iterable.flip) {
    reversedSequence.flip = function() {
      return iterable.flip();
    }
  }
};

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function(type, reverse) { return iterable.__iterator(type, !reverse) };

return reversedSequence;

return function(filterSequence) {
    var filterSequenceHas = function(key) {
        var v = iterable.get(key, NOT_SET);
        return v !== NOT_SET &
          predicate.call(context, v, key, iterable);
    };

    var this$0 = this;

    return function(key, notSetValue) {
        var v = iterable.get(key, NOT_SET);
        return v !== NOT_SET &
          predicate.call(context, v, key, iterable) ?
            v : notSetValueValue;
    };

    return filterSequence._iterateUncached = function(fn, reverse) {
        var this$0 = this;

        return function(v, useKeys ? k : iterations++) {
            return fn(v, useKeys ? k : iterations - 1, this$0);
        };
    };

    return sliceSeq._iterateUncached = function(type, reverse) {
        var iterator = iterable._iterator(ITERATE_ENTRIES, reverse);
        return function(v, key, iterable) {
            return iteratorValue(type, useKeys ? key : iterations++,
                value, step);};
    };

    return filterFactory(iterable, predicate, context) {
        var groups = Map().asMutable();

        return function(countByFactory(iterable, grouper, context) {
            var groups = Map().asMutable();

            return function(filterFactory(iterable, predicate, context, useKeys) {
                var filterSequence = makeSequence(iterable);

                return reversedSequence;
            };
        };
    };

    return sliceFactory(iterable.toSeq().cacheResult(), begin, end, useKeys);
var v = step.value;\n  if (type === ITERATE_ENTRIES) {\n    v = v[1];\n  }\n  if (fn(step.value[1], step.value[0]) !== false) {\n    break;\n  }\n  }\n  \n  var index = 0;\n  var entries = iterable.toSeq().map(function(v, k) {\n    return [k, v, index++, mapper ? mapper(v, k, iterable) : v];\n  }).toArray();\n  entries.sort(function(a, b) {\n    return comparator(a[3], b[3]) || a[2] - b[2];\n  });\n  return entries.map(function(v, i) {\n    return [v[0], v[1], index++, mapper ? mapper(v, k, iterable) : v];\n  });\n
zipSequence.__iterate = function(fn, reverse) {\n  var this$0 = this;\n  var flag = reverse ? -1 : 1;\n  var index = 0;\n  var length = iterable.size * flag;\n  var step;\n  return new Iterator(function() {\n    if (index >= length) {\n      return iteratorDone();\n    }\n    step = iterator.next();\n    if (step.done) {\n      return iteratorDone();\n    }\n    var value = step.value;\n    if (type === ITERATE_ENTRIES) {\n      value = value[1];\n    }\n    if (fn(value, index++, this$0) !== false) {\n      return;\n    }\n    index += flag;\n  });\n}

zipSequence.__iterateUncached = function(fn, reverse) {\n  var this$0 = this;\n  var flag = reverse ? -1 : 1;\n  var index = 0;\n  var length = iterable.size * flag;\n  var step;\n  return new Iterator(function() {\n    if (index >= length) {\n      return iteratorDone();\n    }\n    step = iterator.next();\n    if (step.done) {\n      return iteratorDone();\n    }\n    var value = step.value;\n    if (type === ITERATE_ENTRIES) {\n      value = value[1];\n    }\n    if (fn(value, index++, this$0) !== false) {\n      return;\n    }\n    index += flag;\n  });\n}

interposedSequence.__iteratorUncached = function(fn, reverse) {\n  var this$0 = this;\n  var flag = reverse ? -1 : 1;\n  var index = 0;\n  var length = iterable.size * flag;\n  var step;\n  return new Iterator(function() {\n    if (index >= length) {\n      return iteratorDone();\n    }\n    step = iterator.next();\n    if (step.done) {\n      return iteratorDone();\n    }\n    var value = step.value;\n    if (type === ITERATE_ENTRIES) {\n      value = value[1];\n    }\n    if (fn(value, index++, this$0) !== false) {\n      return;\n    }\n    index += flag;\n  });\n}

interposedSequence.__iterate = function(fn, reverse) {\n  var this$0 = this;\n  var flag = reverse ? -1 : 1;\n  var index = 0;\n  var length = iterable.size * flag;\n  var step;\n  return new Iterator(function() {\n    if (index >= length) {\n      return iteratorDone();\n    }\n    step = iterator.next();\n    if (step.done) {\n      return iteratorDone();\n    }\n    var value = step.value;\n    if (type === ITERATE_ENTRIES) {\n      value = value[1];\n    }\n    if (fn(value, index++, this$0) !== false) {\n      return;\n    }\n    index += flag;\n  });\n}

interposedSequence.__iterateUncached = function(fn, reverse) {\n  var this$0 = this;\n  var flag = reverse ? -1 : 1;\n  var index = 0;\n  var length = iterable.size * flag;\n  var step;\n  return new Iterator(function() {\n    if (index >= length) {\n      return iteratorDone();\n    }\n    step = iterator.next();\n    if (step.done) {\n      return iteratorDone();\n    }\n    var value = step.value;\n    if (type === ITERATE_ENTRIES) {\n      value = value[1];\n    }\n    if (fn(value, index++, this$0) !== false) {\n      return;\n    }\n    index += flag;\n  });\n}
names.forEach(setProp.bind(undefined, prototype));

} catch (error) {
  console.error('Object.defineProperty property error:', error);
}

setProp.prototype = function setProp(name, value) {
  Object.defineProperty(this, name, {
    get: function() {
      return this.get(name);
    },
    set: function(value) {
      invariant(this.__ownerID,
        'Cannot set on an immutable record.'),
      this.set(name, value);
    },
    enumerable: true
  });

  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(Set,
    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 {', '}');
    };

    // @pragma Access

    Set.prototype.has = function(value) {
      return this._map.has(value);
    };

    // @pragma Modification

    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(iter) {return iter.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(iter) {return SetIterable(iter)});
      var originalSet = this;
      return this.withMutations(function(set) {
        originalSet.forEach(function(value) {
          if (iters.some(function(iter) {return iter.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.union.apply(this, iters);
    };

    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 = ownerID;
        this._map = newMap;
      } return this;
    };

    function updateSet(set, newMap) {
      if (set.__ownerID) {
        set.size = newMap.size;
        set._map = newMap;
      } return newMap === set._map ? set :
      newMap.size === 0 ? set.__empty() :
      set.__make(newMap);
    };

    function makeSet(map, ownerID) {
      var NewMap = this.__make(map, ownerID);
      if (ownerID === this.__ownerID) {
        this.map = NewMap;
      } return NewMap;
    };

    function sortableMap(map) {
      return this(map, function(k) {return k});
    };

    function isSet(maybeSet) {
      return !!(maybeSet &&
        maybeSet[IS_SET_SENTINEL]);
    }

    Set.isSet = isSet;

    var IS_SET_SENTINEL = '@@@IMMUTABLE_SET___@@';
    var SetPrototype = Set.prototype;
    SetPrototype[IS_SET_SENTINEL] = true;
    SetPrototype[DELETE] = SetPrototype.remove;
    SetPrototype.mergeDeep = SetPrototype.merge;
    SetPrototype.mergeDeepWith = SetPrototype.mergeWith;
    SetPrototype.withMutations = MapPrototype.withMutations;
    SetPrototype.asMutable = MapPrototype.asMutable;
    SetPrototype.asImmutable = MapPrototype.asImmutable;
    SetPrototype._empty = emptySet;
    SetPrototype._make = makeSet;
    function updateSet(set, newMap) {
      if (set.__ownerID) {
        set.size = newMap.size;
        set._map = newMap;
      } return newMap === set._map ? set :
      newMap.size === 0 ? set._empty() :
      set._make(newMap);
    };

    var Set = Object.create(SetPrototype);
return makeStack(this.size, this._head, ownerID, this.__hash)
};

Stack.prototype._iterate = function(fn, reverse) {
  var iterations = 0;
  var node = this._head;
  while (node) {
    if (fn(node.value, iterations++, this) === false) {
      break;
    }
    node = node.next;
    return iterations;
  }
}

Stack.prototype._iterator = function(type, reverse) {
  var iterations = 0;
  var node = this._head;
  return new Iterator(function() {
    if (node) {
      var value = node.value;
      node = node.next;
      return iteratorValue(type, iterations++, value);
    }
    return iteratorDone();
  });
}

function isStack(maybeStack) {
  return !!(maybeStack && maybeStack[IS_STACK_SENTINEL]);
}

Stack.isStack = isStack;

var IS_STACK_SENTINEL = '@@__IMMUTABLE_STACK__@@';

var StackPrototype = Stack.prototype;
StackPrototype[IS_STACK_SENTINEL] = true;

StackPrototype.withMutations = MapPrototype.withMutations;
StackPrototype.asMutable = MapPrototype.asMutable;
StackPrototype.asImmutable = MapPrototype.asImmutable;

assertNotInfinite(this.size);
var array = new Array(this.size || 0);
this.valueSeq().__iterate(function(v, i) { array[i] = v; });
return array;

return this.toSeq().map(function(value) { return value && typeof value.toJS === 'function' ? value.toJS() : value }).__toJS();

return Map(this.toKeyedSeq());

return OrderedMap(this.toKeyedSeq());

return OrderedSet() function() {
  return Set(isKeyed(this) ? this.valueSeq() : this);
}

function(head, tail) {
  var returnHead = head + tail;
  var returnTail = '' + this.toSeq().map(this._toStringMapper).join(', ') + ' ' + tail;
  return returnHead + returnTail;
}

function( context ) {
  return this.some(function(value, k) { return is(value, searchValue); }, context);
}

return this.some(function(value, k) { return is(value, searchValue); }, context);

return returnHead + returnTail;
}

return returnHead + returnTail;
tokenType : lastTokenType\n\n
// initializing a new token\n
token = \"\"\n\n
// determining the new
token type (going up the\n
// list until matching a token type start\n
// condition)\n
tokenType = 11\n
while (![\n
1, // 0: whitespace\n
// 1: operator or braces\n
/[\\/{}[(\\+*=<>:;|\\\\.,?!&@~]/[test](chr), // eslint-disable-line no-useless-escape\n
/[\\])]/[test](chr), // 2: closing
brace\n
/[$\\w]/[test](chr), // 3: (key)word\n
chr == \"/\" && // 4: regex\n
// previous token was
an\n
// opening brace or an\n
// operator (otherwise\n
// division, not a regex)\n
(lastTokenType < 2) &&\n
// workaround for xml\n
// closing tags\n
prev1 != \"<\",\n
chr
== \"\\\"\", // 5: string with \"\n
chr == \"'\", // 6: string with '\n
// 7: xml comment\n
chr+next1+text[pos+1]+text[pos+2] == \"<!--\",\n
chr+next1 == \"/*\", // 8: multiline comment\n
chr+next1 == \"//\", // 9: single-line comment\n
chr == \"#\" // 10: hash-style comment\n
][-tokenType]);\n
}\n\n
token += chr\n }\n }\n\n return reset(el)\n}\n\n/**\n * Take an immutable map, and
convert to a list.\n * Where the keys are merged with the value objects\n * @param {Immutable.Map} map, the map
to convert\n * @param {String} key the key to use, when merging the `key`\n * @returns {Immutable.List}\n
*/\nexport function mapToList(map, keyNames=\"key\", collectedKeys=Im.Map()) {\n if(!Im.Map.isMap(map) ||
!map.size) {\n return Im.List()\n }\n\n if(!Array.isArray(keyNames)) {\n keyNames = [ keyNames ]\n }\n\n
if(keyNames.length < 1) {\n return map.merge(collectedKeys)\n }\n\n // I need to avoid `flatMap` from merging
in the Maps, as well as the lists\n let list = Im.List()\n let keyName = keyNames[0]\n for(let entry of map.entries())
{\n let [key, val] = entry\n let nextList = mapToList(val, keyNames.slice(1), collectedKeys.set(keyName,
key))\n if(Im.List.isList(nextList)) {\n
list = list.concat(nextList)\n } else {\n
list = list.push(nextList)\n
}\n }\n\n return list\n}\n\nexport function extractFileNameFromContentDispositionHeader(value){\n let patterns =
[\n /filename\\*=[^']+'\\w*'\"([^\"]+)\";?/i,\n /filename\\*=[^']+'\\w*'([^;]+);?/i,\n /filename=\"([^;]*);?\"/i,\n
/filename=([^;]*);?/i\n ]\n \n let responseFilename\n patterns.some(regex => {\n responseFilename =
regex.exec(value)\n return responseFilename !== null\n })\n \n if (responseFilename !== null &&
responseFilename.length > 1) {\n try {\n
return decodeURIComponent(responseFilename[1])\n } catch(e) {\n
console.error(e)\n }\n }\n\n return null\n}\n\n// PascalCase, aka UpperCamelCase\nexport function
pascalCase(str) {\n return upperFirst(camelCase(str))\n}\n\n// Remove the ext of a filename, and pascalCase
it\nexport function pascalCaseFilename(filename) {\n return pascalCase(filename.replace(/\\.[^./]*$/, \"\"))\n}\n\n//
Check if ...\n// - new props\n// - If immutable, use .is()\n// - if in explicit objectList, then compare using _.eq\n// else use ===\nexport const propChecker = (props, nextProps, objectList=[], ignoreList=[]) => {\n\n
if(Object.keys(props).length !== Object.keys(nextProps).length) {\n return true\n }\n\n return (\n some(props,
(a, name) => {\n
if(ignoreList.includes(name)) {\n
return false\n
}\n
let b = nextProps[name]\n\n
if(Im.Iterable.isIterable(a)) {\n
return !Im.is(a,b)\n
}\n\n
// Not going to compare objects\n
if(typeof a
=== \"object\" && typeof b === \"object\") {\n
return false\n
}\n\n
return a !== b\n })\n ||
objectList.some( objectPropName => !eq(props[objectPropName], nextProps[objectPropName])))\n}\n\nexport
const validateMaximum = ( val, max ) => {\n if (val > max) {\n return \"Value must be less than Maximum\"\n
}\n}\n\nexport const validateMinimum = ( val, min ) => {\n if (val < min) {\n return \"Value must be greater than
Minimum\"\n }\n}\n\nexport const validateNumber = ( val ) => {\n if (!/^-?\\d+(\\.?\\d+)?$/.test(val)) {\n return
\"Value must be a number\"\n }\n}\n\nexport const validateInteger = ( val ) => {\n if (!/^-?\\d+$/.test(val)) {\n
return \"Value must be an integer\"\n }\n}\n\nexport const validateFile = ( val ) => {\n if ( val && !(val instanceof
win.File) ) {\n return \"Value must be a file\"\n }\n}\n\nexport const validateBoolean = ( val ) => {\n if ( !(val
=== \"true\" || val === \"false\" || val === true || val === false) ) {\n return \"Value must be a boolean\"\n
}\n}\n\nexport const validateString = ( val ) => {\n if ( val && typeof val !== \"string\" ) {\n return \"Value must
be a string\"\n }\n}\n\nexport const validateDateTime = (val) => {\n if (isNaN(Date.parse(val))) {\n
return
\"Value must be a DateTime\"\n }\n}\n\nexport const validateGuid = (val) => {\n val =
val.toString().toLowerCase()\n if (!/^[{(]?[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9af]{12}[)}]?$/.test(val)) {\n
return \"Value must be a Guid\"\n }\n}\n\nexport const validateMaxLength = (val,
max) => {\n if (val.length > max) {\n return \"Value must be less than MaxLength\"\n }\n}\n\nexport const
validateMinLength = (val, min) => {\n if (val.length < min) {\n
return \"Value must be greater than

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MinLength

```javascript
let map = {}
let search = win.location.search

if(!search)
  return {}

if ( search != "" ) {
  let config)

  return typeof res === "object" ? JSON.stringify(res, null, 2) : res
}

export const parseSearch = ()

return memoizedCreateXMLExample(schema, config)
  }

  const res = memoizedSampleFromSchema(schema,

```
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) => {
    return 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` responses
  const defaultResponse = responses.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(/\s/g,"\") : ""
// 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|minimum/.test(k))

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 instanceof Array) {
    input === null || thing.length === 0 || thing !== undefined || thing !== null) {
    return thing
  }

  if (thing && thing.toJS) {
    thing = thing.toJS() || thing
  }

  if (typeof thing === "object" && thing !== undefined || thing !== null) {
    return thing
  }

  if (typeof thing === "number") {
    return thing.toString() || thing
  }

  if (typeof thing === "string") {
    return thing.toString() || thing
  }

  return thing.toString() || thing
}

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("hash-", param.hashCode)
  }

  if(paramIn && paramName) {
    generatedIdentifiers.push("", paramIn, ",", paramName)
  }

  if(generatedIdentifiers.length > 0) {
    // Return the most preferred identifier, or all if requested
    return returnAll ? generatedIdentifiers : paramToIdentifier(param, returnAll: true)
  }

  if(paramIn && paramName) {
    generatedIdentifiers.push(paramIn, ",", paramName)
  }

  // Return the most preferred identifier, or all if requested
  if(generatedIdentifiers.length > 0) {
    return returnAll ? generatedIdentifiers : paramToIdentifier(param, returnAll: true)
  }

  // Map identifiers to values in the provided value hash, filter undefined values.
  return
}

// and return the first value found
  const values =
```javascript
/**
 * Given a DOM node, return the closest ReactDOMComponent or
 * ReactDOMTextComponent instance ancestor.
 */
function getClosestInstanceFromNode(node) {
  if (node[internalInstanceKey]) {
    return node[internalInstanceKey];
  } else { // Top of the tree. This node must not be a part of a React tree (or is unmounted, potentially).
    return null;
  }
}

/**
 * A given DOM node, return the closest ReactDOMComponent or
 * ReactDOMTextComponent instance ancestor.
 */
function getInstanceFromNode(node) {
  var inst = getClosestInstanceFromNode(node);
  if (inst !== null && inst._hostNode === node) {
    return inst;
  } else { // Without this invariant, passing a non-DOM-component triggers the next
    // invariant for a missing parent, which is super confusing.
    if (inst._hostNode !== undefined) {
      // process.env.NODE_ENV !== 'production' ? invariant(false, 'getNodeFromInstance: Invalid argument.');</p>
```
ReactDebugTool = require('./ReactDebugTool');

debugTool = ReactDebugTool;

module.exports = {
  debugTool: debugTool,
};

ReactDebugTool = require('./ReactDebugTool');

debugTool = ReactDebugTool;

module.exports = {
  debugTool: debugTool,
};

// WEBPACK FOOTER
// ./node_modules/react-dom/lib/ReactInstrumentation.js

module.id = 39
module.chunks = 0
module.exports = {
  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
    // 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
  }
  const swaggerVersion = jsSpec.get('swagger')
  if (typeof swaggerVersion === 'string')
    { return false } // we gate against '3.1'
    // at some point in the future -- KS, 7/2018
    // starts with, but is not '2.0.' exactly
    return swaggerVersion.startsWith('2.0') &&
    swaggerVersion.length > 4
}

// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_descriptors.js

module.exports = {
  "default": require("core-js/library/fn/json/stringify"),
  __esModule: true
};

// WEBPACK FOOTER
// ./node_modules/babel-runtime/core-js/json/stringify.js

module.exports = {
  "default": require("core-js/library/fn/object/keys"),
  __esModule: true
};

// WEBPACK FOOTER
// ./node_modules/babel-runtime/core-js/object/keys.js

/**
 * 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 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 = [];
var updateBatchNumber = 0;
var asapCallbackQueue = CallbackQueue.getPooled();
var asapEnqueued = false;

var batchingStrategy = null;

function ReactUpdatesFlushTransaction() {
  this.reinitializeTransaction();
  this.dirtyComponentsLength = null;
  this.callbackQueue = CallbackQueue.getPooled();
  this.reconcileTransaction = ReactUpdates.ReactReconcileTransaction.getPooled(
    /* useCreateElement */ true);
}

_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) {
    this.reconcileTransaction.perform(method, scope, a);
  },

  commit: function () {
    this.reconcileTransaction.commit()
  }
});

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Transaction.perform.call(this, this.reconcileTransaction.perform, this.reconcileTransaction, method, scope, a);
}

function batchedUpdates(callback, a, b, c, d, e) {
  ensureInjected();
  return batchingStrategy.batchedUpdates(callback, a, b, c, d, e);
}

function mountOrderComparator(c1, c2) {
  return c1._mountOrder - c2._mountOrder;
}

function runBatchedUpdates(transaction) {
  var len = transaction.dirtyComponents.length;
  !(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;

  dirtyComponents.sort(mountOrderComparator);

  updateBatchNumber++;

  for (var i = 0; i < len; i++) {
    var component = dirtyComponents[i];

    var callbacks = component._pendingCallbacks;
    component._pendingCallbacks = null;

    if (ReactFeatureFlags.logTopLevelRenders) {
      var namedComponent = component;
      if (component._currentElement.type.isReactTopLevelWrapper) {
        namedComponent = component._renderedComponent;
      }
      markerName = 'React update: ' + namedComponent.getName();
      console.time(markerName);
    }

    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 () {
  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);
    }
  }
};
context);
  asapEnqueued = true;\n}\\nvar ReactUpdatesInjection = {
  injectReconcileTransaction: function (ReconcileTransaction) {\n    !ReconcileTransaction ? process.env.NODE_ENV !== 'production' ? invariant(false,
    'ReactUpdates: must provide a reconcile transaction class') : _prodInvariant('126') : void 0;\n  ReactUpdates.ReactReconcileTransaction = ReconcileTransaction;\n},\n
  injectBatchingStrategy: function (_batchingStrategy) {\n    !_batchingStrategy ? process.env.NODE_ENV !== 'production' ? invariant(false,
    'ReactUpdates: must provide a batching strategy') : _prodInvariant('127') : void 0;\n  (!typeof \n    _batchingStrategy.batchedUpdates === 'function') ? process.env.NODE_ENV !== 'production' ? invariant(false,
    'ReactUpdates: must provide a batchedUpdates() function') : _prodInvariant('128') : void 0;\n  (!typeof \n    _batchingStrategy.isBatchingUpdates === 'boolean') ? process.env.NODE_ENV !== 'production' ? invariant(false,
    'ReactUpdates: must provide an isBatchingUpdates boolean attribute') : _prodInvariant('129') : void 0;\n
  batchingStrategy = _batchingStrategy;\n}\n
var ReactUpdates = {
  /**
   * React references `ReactReconcileTransaction` using this property in order\n   * to allow dependency injection.\n   *\n   * @internal\n   */
  ReactReconcileTransaction: null,

  batchedUpdates: batchedUpdates,
  enqueueUpdate: enqueueUpdate,

  flushBatchedUpdates: flushBatchedUpdates,
  injection: ReactUpdatesInjection,
  asap: asap
};

module.exports = ReactUpdates;


// WEBPACK FOOTER
// ./node_modules/react-dom/lib/ReactUpdates.js
// module id = 44
// module chunks = 0
// optional / simple context binding\n
var aFunction = require('./_a-function');
module.exports = function (fn, that, length) {
  aFunction(fn);
  if (that === undefined) return fn;
  switch (length) {
    case 1: return function (a) {
      return fn.call(that, a);
    };
    case 2: return function (a, b) {
      return fn.call(that, a, b);
    };
    case 3: return function (a, b, c) {
      return fn.call(that, a, b, c);
    };
  }
  return function (/* ...args */) {
    return fn.apply(that, arguments);
  };
};


// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_ctx.js
// module id = 45
// module chunks = 0

/**
 * Checks if `value` is object-like. A value is object-like if it's not `null` \n * and has a `typeof` result of "object".
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @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(null);
 * // => false
 */
function isObjectLike(value) {
  return value != null && typeof value == 'object';
}

module.exports = isObjectLike;


// WEBPACK FOOTER
// ./node_modules/libraries/react-current-owner.js
// module id = 47
// 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 ReactCurrentOwner = {
  /**
   * @internal
   * @type {ReactComponent}
   */
  current: null
};

module.exports = ReactCurrentOwner;


// WEBPACK FOOTER
// ./node_modules/webpack-runtime/helpers/ObjectLike.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';

var _assign$1 = require('object-assign');

var _isObjectLike = function _isObjectLike(value) {
  return value != null && typeof value == 'object';
}\

function ReactCurrentOwner() {
  return _isObjectLike(ReactCurrentOwner);\n}

module.exports = ReactCurrentOwner;
PooledClass = require('./PooledClass');\n\nvar emptyFunction = require('fbjs/lib/emptyFunction');\nvar warning =
require('fbjs/lib/warning');\n\nvar didWarnForAddedNewProperty = false;\nvar isProxySupported = typeof Proxy
=== 'function';\n\nvar shouldBeReleasedProperties = ['dispatchConfig', '_targetInst', 'nativeEvent',
'isDefaultPrevented', 'isPropagationStopped', '_dispatchListeners', '_dispatchInstances'];\n\n/**\n * @interface
Event\n * @see http://www.w3.org/TR/DOM-Level-3-Events/\n */\nvar EventInterface = {\n type: null,\n target:
null,\n // currentTarget is set when dispatching; no use in copying it here\n currentTarget:
emptyFunction.thatReturnsNull,\n eventPhase: null,\n bubbles: null,\n cancelable: null,\n timeStamp: function
(event) {\n return event.timeStamp || Date.now();\n },\n defaultPrevented: null,\n isTrusted: null\n};\n\n/**\n *
Synthetic events are dispatched by event plugins, typically in response to a\n * top-level event delegation handler.\n
*\n * These systems should generally use pooling to reduce the frequency of garbage\n * collection. The system
should check `isPersistent` to determine whether the\n * event should be released into the pool after being
dispatched. Users that\n * need a persisted event should invoke `persist`.\n *\n * Synthetic events (and subclasses)
implement the DOM Level 3 Events API by\n * normalizing browser quirks. Subclasses do not necessarily have to
implement a\n * DOM interface; custom application-specific events can also subclass this.\n *\n * @param {object}
dispatchConfig Configuration used to dispatch this event.\n * @param {*} targetInst Marker identifying the event
target.\n * @param {object} nativeEvent Native browser event.\n * @param {DOMEventTarget} nativeEventTarget
Target node.\n */\nfunction SyntheticEvent(dispatchConfig, targetInst, nativeEvent, nativeEventTarget) {\n if
(process.env.NODE_ENV !== 'production') {\n // these have a getter/setter for warnings\n delete
this.nativeEvent;\n delete this.preventDefault;\n delete this.stopPropagation;\n }\n\n this.dispatchConfig =
dispatchConfig;\n this._targetInst = targetInst;\n this.nativeEvent = nativeEvent;\n\n var Interface =
this.constructor.Interface;\n for (var propName in Interface) {\n if (!Interface.hasOwnProperty(propName)) {\n
continue;\n }\n if (process.env.NODE_ENV !== 'production') {\n
delete this[propName]; // this has a
getter/setter for warnings\n }\n var normalize = Interface[propName];\n if (normalize) {\n
this[propName]
= normalize(nativeEvent);\n } else {\n
if (propName === 'target') {\n
this.target = nativeEventTarget;\n
} else {\n
this[propName] = nativeEvent[propName];\n
}\n }\n }\n\n var defaultPrevented =
nativeEvent.defaultPrevented != null ? nativeEvent.defaultPrevented : nativeEvent.returnValue === false;\n if
(defaultPrevented) {\n this.isDefaultPrevented = emptyFunction.thatReturnsTrue;\n } else {\n
this.isDefaultPrevented = emptyFunction.thatReturnsFalse;\n }\n this.isPropagationStopped =
emptyFunction.thatReturnsFalse;\n return this;\n}\n\n_assign(SyntheticEvent.prototype, {\n preventDefault:
function () {\n this.defaultPrevented = true;\n var event = this.nativeEvent;\n if (!event) {\n
return;\n }\n\n
if (event.preventDefault) {\n
event.preventDefault();\n
// eslint-disable-next-line valid-typeof\n } else if
(typeof event.returnValue !== 'unknown') {\n
event.returnValue = false;\n }\n this.isDefaultPrevented =
emptyFunction.thatReturnsTrue;\n },\n\n stopPropagation: function () {\n var event = this.nativeEvent;\n if
(!event) {\n
return;\n }\n\n if (event.stopPropagation) {\n
event.stopPropagation();\n
// eslint-disablenext-line valid-typeof\n } else if (typeof event.cancelBubble !== 'unknown') {\n
// The ChangeEventPlugin
registers a \"propertychange\" event for\n
// IE. This event does not support bubbling or cancelling, and\n
//
any references to cancelBubble throw \"Member not found\". A\n
// typeof check of \"unknown\" circumvents
this issue (and is also\n
// IE specific).\n
event.cancelBubble = true;\n }\n\n this.isPropagationStopped =
emptyFunction.thatReturnsTrue;\n },\n\n /**\n * We release all dispatched `SyntheticEvent`s after each event
loop, adding\n * them back into the pool. This allows a way to hold onto a reference that\n * won't be added back
into the pool.\n */\n persist: function () {\n this.isPersistent = emptyFunction.thatReturnsTrue;\n },\n\n /**\n *
Checks if this event should be released back into the pool.\n *\n * @return {boolean} True if this should not be
released, false otherwise.\n */\n isPersistent: emptyFunction.thatReturnsFalse,\n\n /**\n * `PooledClass` looks
for `destructor` on each instance it releases.\n */\n destructor: function () {\n var Interface =
this.constructor.Interface;\n for (var propName in Interface) {\n
if (process.env.NODE_ENV !== 'production')
{\n
Object.defineProperty(this, propName, getPooledWarningPropertyDefinition(propName,
Interface[propName]));\n
} else {\n
this[propName] = null;\n
}\n }\n for (var i = 0; i <
shouldBeReleasedProperties.length; i++) {\n
this[shouldBeReleasedProperties[i]] = null;\n }\n if

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```
/*!
 * The buffer module from node.js, for the browser.
 *
 * @author   Feross Aboukhadijeh <feross@feross.org> http://feross.org
 * @license  MIT
 * @esnext 2016
 *
 * INSPECT_MAX_BYTES = 50
 *
 */

'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`:
 *   === true    Use Uint8Array implementation (fastest)
 *   === false  Use Object implementation (most compatible, even IE6)
 *
 * Browsers that support typed arrays are IE 10+,
 * Firefox 4+, Chrome 7+, Safari 5.1+, Opera 11.6+, iOS 4.2+.
 * Due to various browser bugs, sometimes the
 * Object implementation will be used even if
 * when the browser supports typed arrays.
 * Note: * See:
 * Firefox 4-29 lacks support for adding new properties to `Uint8Array`
 * See:
 * https://bugzilla.mozilla.org/show_bug.cgi?id=695438
 */

Buffer.TYPED_ARRAY_SUPPORT = global.TYPED_ARRAY_SUPPORT !== undefined
  ? global.TYPED_ARRAY_SUPPORT
  : typedArraySupport()

function typedArraySupport ()
{
  try {
    var arr = new Uint8Array(1)
    arr.__proto__ = {__proto__: Uint8Array.prototype, foo: function () {
      return 42 }}
    return arr.foo() === 42 && // typed array instances can be augmented
        typeof arr.subarray === 'function' && // chrome 9-10 lack `subarray`
        arr.subarray(1, 1).byteLength === 0 // ie10 has broken `subarray`
  } catch (e) {
    return false
  }
}

function kMaxLength () {
  return Buffer.TYPED_ARRAY_SUPPORT
    ? 0x7fffffff
    : 0x3fffffff
}

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)
    }
  }

  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 -- ie it * returns a single octet.
 * `Buffer.TYPED_ARRAY_SUPPORT` is `true` if
 * the `Uint8Array` prototype remains unmodified.
 * `Buffer.TYPED_ARRAY_SUPPORT` is `true` if
 * `Buffer.prototype.__proto__` is `null`.
 */

Buffer.prototype.__proto__ = Uint8Array.prototype
Buffer.__proto__ = Uint8Array

if (typeof Symbol !== 'undefined' && Symbol.species && Buffer[Symbol.species] === Buffer)
{
  Object.defineProperty(Buffer, Symbol.species, {
    value: null,
    configurable: true,
  })
}

Buffer.TYPED_ARRAY_SUPPORT = Buffer.TYPED_ARRAY_SUPPORT

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 be a number')
  }
}
```

function asciiWrite(buf, string, offset, length) {
    return blitBuffer(utf8ToBytes(string, buf.length - offset), buf, offset, length)
}

function latin1Write(buf, string, offset, length) {
    return blitBuffer(latin1ToBytes(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(ucs2ToBytes(string), buf, offset, length)
}

function hexWrite(buf, string, offset, length) {
    return blitBuffer(hexToBytes(string), buf, offset, length)
}

function asciiWrite(buf, string, offset, length) {
    return blitBuffer(asciiToBytes(string), buf, offset, length)
}

function latin1Write(buf, string, offset, length) {
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}

function ucs2Write(buf, string, offset, length) {
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function hexWrite(buf, string, offset, length) {
    return blitBuffer(hexToBytes(string), buf, offset, length)
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}

function latin1Write(buf, string, offset, length) {
    return blitBuffer(latin1ToBytes(string), buf, offset, length)
}

function base64Write(buf, string, offset, length) {
    return blitBuffer(base64ToBytes(string), buf, offset, length)
}

function ucs2Write(buf, string, offset, length) {
decodeCodePointsArray (codePoints) { 
  var len = codePoints.length 
  if (len <= MAX_ARGUMENTS_LENGTH) { 
    return String.fromCharCode.apply(String, codePoints) // avoid extra slice() 
  } 
  // Decode in chunks to avoid "call stack size exceeded" 
  var res = "" 
  var i = 0 
  while (i < len) {
    res += String.fromCharCode.apply(String, codePoints.slice(i, i += MAX_ARGUMENTS_LENGTH)) 
  } 
  return res 
}

function asciiSlice (buf, start, end) { 
  var ret = "" 
  if (end !== undefined) { 
    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 = "" 
  if (end !== undefined) { 
    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 res = "" 
  var len = buf.length 
  if (start === undefined) start = 0 
  if (end === undefined) end = len 
  var out = "" 
  for (var i = start; i < end; ++i) { 
    out += toHex(buf[i]) 
  } 
  return out 
}

function utf16leSlice (buf, start, end) { 
  var res = "" 
  var bytes = buf.slice(start, end) 
  for (var i = 0; i < bytes.length; i += 2) { 
    res += String.fromCharCode(bytes[i] + bytes[i + 1] * 256) 
  } 
  return res 
}

Buffer.prototype.readUIntLE = function readUIntLE (offset, byteLength, noAssert) { 
  if (offset === undefined) offset = 0 
  if (offset + byteLength > this.length) { 
    throw new RangeError("Trying to access beyond buffer 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) { 
  if (offset === undefined) offset = 0 
  if (offset + byteLength > this.length) { 
    throw new RangeError("Trying to access beyond buffer length") 
  } 
  var val = this[offset + --byteLength] 
  var mul = 1 
  while (byteLength > 0 && (mul *= 0x100)) { 
    val += this[offset + --byteLength] * mul 
  } 
  mul *= 0x80 
  if (val >= mul) val -= Math.pow(2, 8 * byteLength) 
  return val 
}

Buffer.prototype.readUInt8 = function readUInt8 (offset, noAssert) { 
  if (offset === undefined) offset = 0 
  if (offset + 1 > this.length) { 
    throw new RangeError("Trying to access beyond buffer length") 
  } 
  return this[offset] 
}

Buffer.prototype.readUInt16LE = function readUInt16LE (offset, noAssert) { 
  if (offset === undefined) offset = 0 
  if (offset + 2 > this.length) { 
    throw new RangeError("Trying to access beyond buffer length") 
  } 
  var val = this[offset] | (this[offset + 1] << 8) 
  return val 
}

Buffer.prototype.readUInt16BE = function readUInt16BE (offset, noAssert) { 
  if (offset === undefined) offset = 0 
  if (offset + 2 > this.length) { 
    throw new RangeError("Trying to access beyond buffer length") 
  } 
  var val = (this[offset] << 8) | this[offset + 1] 
  return val 
}

Buffer.prototype.readUInt32LE = function readUInt32LE (offset, noAssert) { 
  if (offset === undefined) offset = 0 
  if (offset + 4 > this.length) { 
    throw new RangeError("Trying to access beyond buffer length") 
  } 
  var val = this[offset] | (this[offset + 1] << 8) | (this[offset + 2] << 16) | this[offset + 3] 
  return val 
}

Buffer.prototype.readUInt32BE = function readUInt32BE (offset, noAssert) { 
  if (offset === undefined) offset = 0 
  if (offset + 4 > this.length) { 
    throw new RangeError("Trying to access beyond buffer length") 
  } 
  var val = this[offset + 3] | (this[offset + 2] << 8) | (this[offset + 1] << 16) | this[offset] 
  return val 
}
checkOffset(offset, 2, this.length) \n var val = this[offset] | (this[offset + 1] << 8) \n return (val & 0x8000) ? val | 0xFFFF0000 : val \n\n Buffer.prototype.readInt16BE = function readInt16BE (offset, noAssert) { \n if (!noAssert) \n checkOffset(offset, 2, this.length) \n var val = this[offset + 1] | (this[offset] << 8) \n return (val & 0x8000) ? val | 0xFFFF0000 : val \n\n (this[offset + 3] << 24) \n Buffer.prototype.readInt32BE = function readInt32BE (offset, noAssert) { \n if (!noAssert) \n checkOffset(offset, 4, this.length) \n\n return (this[offset] << 8) \n\n (this[offset + 1] << 16) \n\n (this[offset + 2] << 8) \n\n (this[offset + 3]) \n Buffer.prototype.readFloatLE = function readFloatLE (offset, noAssert) { \n if (!noAssert) \n checkOffset(offset, 4, this.length) \n\n return ieee754.read(this, offset, true, 23, 4) \n Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) { \n if (!noAssert) \n checkOffset(offset, 4, this.length) \n\n return ieee754.read(this, offset, false, 23, 4) \n Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) { \n if (!noAssert) \n checkOffset(offset, 8, this.length) \n\n return ieee754.read(this, offset, true, 52, 8) \n\n Buffer.prototype.writeUIntLE = function writeUIntLE (value, offset, byteLength, noAssert) { \n if (!noAssert) { \n\n maxBytes = Math.pow(2, 8 * byteLength) - 1 \n\n checkInt(this, value, offset, byteLength, noAssert) \n\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n\n this[offset] = (value & 0xff) \n\n this[offset + 1] = (value >>> 8) \n\n this[offset + 2] = (value >>> 16) \n\n this[offset + 3] = (value >>> 24) \n\n Buffer.prototype.writeUInt8 = function writeUInt8 (value, offset, noAssert) { \n if (!Buffer.TYPED_ARRAY_SUPPORT) value = Math.floor(value) \n\n this[offset] = (value & 0xff) \n\n Buffer.prototype.writeUInt16LE = function writeUInt16LE (value, offset, noAssert) { \n if (Buffer.TYPED_ARRAY_SUPPORT) { \n\n this[offset] = (value & 0xff) \n\n this[offset + 1] = (value >>> 8) \n\n Buffer.prototype.writeUInt16BE = function writeUInt16BE (value, offset, noAssert) { \n value = +value | offset = offset | 0 \n\n Buffer.prototype.writeUInt32LE = function writeUInt32LE (value, offset, noAssert) { \n value = +value | offset = offset | 0 \n\n Buffer.prototype.writeUInt32BE = function writeUInt32BE (value, offset, noAssert) { \n value = +value | offset = offset | 0 \n\n Buffer.prototype.writeUInt64LE = function writeUInt64LE (value, offset, noAssert) { \n value = +value | offset = offset | 0 \n\n Buffer.prototype.writeUInt64BE = function writeUInt64BE (value, offset, noAssert) { \n value = +value | offset = offset | 0 \n\n Buffer.prototype.writeFloatLE = function writeFloatLE (offset, noAssert) { \n if (!noAssert) \n checkOffset(offset, 4, this.length) \n\n return ieee754.read(this, offset, true, 23, 4) \n Buffer.prototype.writeDoubleLE = function writeDoubleLE (offset, noAssert) { \n if (!noAssert) \n checkOffset(offset, 8, this.length) \n\n return ieee754.read(this, offset, false, 23, 8) \n Buffer.prototype.writeDoubleBE = function writeDoubleBE (offset, noAssert) { \n if (!noAssert) \n checkOffset(offset, 8, this.length) \n\n return ieee754.read(this, offset, true, 52, 8)
Buffer.prototype.writeIntLE = function writeIntLE (value, offset, byteLength, noAssert) {
  value = +value
  offset = offset || 0
  if (!noAssert) {
    var limit = Math.pow(2, 8 * byteLength - 1) - 1
    checkInt(this, value, offset, byteLength, limit - 1, -limit)
    var i = 0
    var var sub = 0
    this[offset + i] = ((value / mul) >> 0) - sub
    this[offset + i + 1] = value & 0xff
    while (++i < byteLength) {
      if (value < 0 && sub === 0 && this[offset + i - 1] !== 0) {
        sub = 1
      }
      this[offset + i] = ((value / mul) >> 0) - sub
      this[offset + i + 1] = value & 0xff
    }
  }
  return offset + byteLength
}

Buffer.prototype.writeIntBE = function writeIntBE (value, offset, byteLength, noAssert) {
  value = +value
  offset = offset || 0
  if (!noAssert) {
    var limit = Math.pow(2, 8 * byteLength - 1) - 1
    checkInt(this, value, offset, byteLength, limit - 1, -limit)
    var i = byteLength - 1
    var mul = 1
    var sub = 0
    this[offset + i] = ((value / mul) >> 0) - sub
    this[offset + i - 1] = value & 0xff
    while (--i >= 0) {
      if (value < 0 && sub === 0 && this[offset + i + 1] !== 0) {
        sub = 1
      }
      this[offset + i] = ((value / mul) >> 0) - sub
      this[offset + i - 1] = value & 0xff
    }
  }
  return offset + byteLength
}

Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert) {
  value = +value
  offset = offset || 0
  if (!noAssert) checkInt(this, value, offset, 1, 0x7f, -0x80)
  if (Buffer.TYPED_ARRAY_SUPPORT) value = Math.floor(value)
  if (value < 0) value = 0xff + value + 1
  this[offset] = (value & 0xff)
  return offset + 1
}

Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert) {
  value = +value
  offset = offset || 0
  if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    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, 0x7fff, -0x8000)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value >>> 8)
    this[offset + 1] = (value & 0xff)
  } else {
    objectWriteUInt16(this, value, offset, false)
  }
  return offset + 2
}

Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert) {
  value = +value
  offset = offset || 0
  if (!noAssert) checkInt(this, value, offset, 4, 0x7fffffff, -0x80000000)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
    this[offset + 2] = (value >>> 16)
    this[offset + 3] = (value >>> 24)
  } else {
    objectWriteUInt32(this, value, offset, false)
  }
  return offset + 4
}

Buffer.prototype.writeInt32BE = function writeInt32BE (value, offset, noAssert) {
  value = +value
  offset = offset || 0
  if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff, -0x80000000)
  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, true)
  }
  return offset + 4
}

function checkIEEE754 (buf, value, offset, ext, max, min) {
  if (offset + ext > buf.length) throw new RangeError('Index out of range')
  if (offset < 0) throw new RangeError('Index out of range')
  if (!Buffer.TYPED_ARRAY_SUPPORT) checkInt(this, value, offset, ext, max, min)
  if (value < 0) value = 0xffffffff + value + 1
  this[offset + ext + 1] = (value >>> 24)
  this[offset + ext + 2] = (value >>> 16)
  this[offset + ext + 3] = (value >>> 8)
  this[offset + ext + 4] = (value & 0xff)
}

function writeFloat (buf, value, offset, littleEndian, noAssert) {
  if (!noAssert) {
    checkIEEE754(buf, value, offset, 4, 3.4028234663852886e+38, -3.4028234663852886e+38)
  }
  ieee754.write(buf, value, offset, littleEndian, 23, 4)
  return offset + 4
}

function writeDouble (buf, value, offset, littleEndian, noAssert) {
  if (!noAssert) {
    checkIEEE754(buf, value, offset, 8, 1.7976931348623157e+308, -1.7976931348623157e+308)
  }
  ieee754.write(buf, value, offset, littleEndian, 52, 8)
  return offset + 8
}

function writeIntLE (this, value, offset, false) {
  this[offset + 2] = (value >>> 4) & 0xff
  this[offset + 3] = (value >>> 8) & 0xff
  this[offset + 4] = (value >>> 12) & 0xff
  return offset + 4
}

function writeIntBE (this, value, offset, false) {
  this[offset] = (value >>> 4) & 0xff
  this[offset + 1] = (value >>> 8) & 0xff
  this[offset + 2] = (value >>> 12) & 0xff
  return offset + 4
}

function writeInt8LE (this, value, offset, false) {
  this[offset] = (value >>> 24) & 0xff
  this[offset + 1] = (value >>> 16) & 0xff
  this[offset + 2] = (value >>>  8) & 0xff
  this[offset + 3] = (value & 0xff)
  return offset + 4
}

function writeInt8BE (this, value, offset, false) {
  this[offset] = (value & 0xff)
  this[offset + 1] = (value >>> 8) & 0xff
  this[offset + 2] = (value >>> 16) & 0xff
  this[offset + 3] = (value >>> 24) & 0xff
  return offset + 4
}

function writeInt16LE (this, value, offset, false) {
  this[offset] = (value & 0xff)
  this[offset + 1] = (value >>> 8) & 0xff
  return offset + 2
}

function writeInt16BE (this, value, offset, false) {
  this[offset] = (value >>> 8) & 0xff
  this[offset + 1] = (value & 0xff)
  return offset + 2
}

function writeInt32LE (this, value, offset, false) {
  this[offset] = (value & 0xff)
  this[offset + 1] = (value >>> 8) & 0xff
  this[offset + 2] = (value >>> 16) & 0xff
  this[offset + 3] = (value >>> 24) & 0xff
  return offset + 4
}

function writeInt32BE (this, value, offset, false) {
  this[offset] = (value >>> 24) & 0xff
  this[offset + 1] = (value >>> 16) & 0xff
  this[offset + 2] = (value >>>  8) & 0xff
  this[offset + 3] = (value & 0xff)
  return offset + 4
}
Object.prototype.run = function () {
    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(func, 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() {
    return null;
}

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;

// provide a default implementations of all methods
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');
};

function defaultEqualityCheck(a, b) {
    return a === b;
}

function defaultMemoize(func) {
    var equalityCheck = arguments.length <= 1 || arguments[1] === undefined ? defaultEqualityCheck : arguments[1];

    var lastArgs = null;
    var lastResult = null;
    return function () {
        for (var _len = arguments.length, args = Array(_len), _key = 0; _key < _len; _key++) {
            args[_key] = arguments[_key];
        }

        if (lastArgs === null || lastArgs.length !== args.length || !args.every(function (value, index) {
            return equalityCheck(value, lastArgs[index]);
        })) {
            lastResult = func.apply(undefined, args);
        }
        lastArgs = args;
        return lastResult;
    };
}

function getDependencies(funcs) {
    var dependencies = Array.isArray(funcs[0]) ? funcs[0] : funcs;

    if (!dependencies.every(function (dep) {
        return typeof dep === 'function';
    })) {
        var dependencyTypes = dependencies.map(function (dependency) {
            return typeof dependency;
        }).join(', ');
        throw new Error('Selector creators expect all input-selectors to be functions, ' + ('instead received the following types: [' + dependencyTypes + ']'));
    }

    return dependencies;
}

function createSelectorCreator(memoize) {
    for (var _len2 = arguments.length, memoizeOptions = Array(_len2 > 1 ? _len2 - 1 : 0), _key2 = 1; _key2 < _len2; _key2++) {
        memoizeOptions[_key2 - 1] = arguments[_key2];
    }

    return function () {
        for (var _len3 = arguments.length, funcs = Array(_len3), _key3 = 0; _key3 < _len3; _key3++) {
            funcs[_key3] = arguments[_key3];
        }

        var dependencies = getDependencies(funcs);
        var memoizedResultFunc = memoize.apply(memoize, arguments);
        var recomputations = 0;
        var resultFunc = funcs.pop();
        var dependencies = getDependencies(funcs);
        var dependencies = dependencies.map(function (dep) {
            return typeof dep === 'function';
        });
        var dependenciesTypes = dependencies.map(function (dep) {
            return typeof dep;
        });

        return createSelectorCreator(memoize)({
            for (var _len2 = arguments.length, memoizeOptions = Array(_len2 > 1 ? _len2 - 1 : 0), _key2 = 1; _key2 < _len2; _key2++) {
                memoizeOptions[_key2] = arguments[_key2];
            }
        })
        var state = function selector(state, props) {
            if (arguments.length > 1) {
                return null;
            } else {
                return Array.from(state);
            }
        }
        var dependencies = getDependencies(state);
        var dependencies = dependencies.map(function (dependency) {
            return typeof dependency;
        });
        var dependenciesTypes = dependencies.map(function (dependency) {
            return typeof dependency;
        });
        var dependencies = getDependencies(state);
        var dependencies = dependencies.map(function (dependency) {
            return typeof dependency;
        });
        var dependencies = getDependencies(state);
        var dependencies = dependencies.map(function (dependency) {
            return typeof dependency;
        });
        var dependencies = getDependencies(state);

        if (dependencies.length <= 1) {
            throw new Error('Selector creators expect at least one input-selector to be a function, ' + ('instead received a ' + dependencies.length + ' input-selectors'));
        }

        return memoizedResultFunc.apply(memoize, dependencies.map(function (dependency) {
            return typeof dependency;
        }));
    }
}

function createStructuredSelector(selectors) {
    var selectorCreator = arguments[0];
    var selectors = arguments[1];
    var dependencies = getDependencies(selectors);
    var dependencies = dependencies.map(function (selector) {
        return typeof selector;
    });

    if (dependencies.length <= 1) {
        throw new Error('createStructuredSelector expects at least one input-selector to be a function, ' + ('instead received a ' + dependencies.length + ' input-selectors'));
    }

    return createSelectorCreator(memoize)({
        for (var _len2 = arguments.length, memoizeOptions = Array(_len2 > 1 ? _len2 - 1 : 0), _key2 = 1; _key2 < _len2; _key2++) {
            memoizeOptions[_key2] = arguments[_key2];
        }
    })
    var state = function selector(state, props) {
        if (arguments.length > 1) {
            return null;
        } else {
            return Array.from(state);
        }
    }
    var dependencies = getDependencies(state);
    var dependencies = dependencies.map(function (dependency) {
        return typeof dependency;
    });
    var dependenciesTypes = dependencies.map(function (dependency) {
        return typeof dependency;
    });
    var dependencies = getDependencies(state);
    var dependencies = dependencies.map(function (dependency) {
        return typeof dependency;
    });
    var dependencies = getDependencies(state);

    if (dependencies.length <= 1) {
        throw new Error('Selector creators expect at least one input-selector to be a function, ' + ('instead received a ' + dependencies.length + ' input-selectors'));
    }

    return memoizedResultFunc.apply(memoize, dependencies.map(function (dependency) {
        return typeof dependency;
    }));
}
TORT OR\n// 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// prototypally inherits from Readable, and then parasitically from\n// Writable.\n// function (obj) {\n// for (var key in obj) {\n// keys.push(key);\n// } return
// keys;\n// }\nmodule.exports = Duplex;\n\nutil.inherits = require('inherits');\n\nutil.inherits(Duplex, Readable);\n\n
(function (Duplex.prototype, method) {
  if (method !== 'end') return;

  Object.defineProperty(Duplex.prototype, method, {
    enumerable: false,
    get: function () {
      return this._writableState[method];
    }
  });
});

Duplex.prototype._destroy = function (err, cb) {
  this.push(null);
  this.end();

  pna.nextTick(cb, err);
};


(module.exports = function (val) {
  return (val !== _undefined) && (val !== null);});


(module.exports = function (value) {
  return Math.max(0, toInteger(value));});


(exports.__esModule = true);

var _from = require("../core-js/array/from");

var _from2 = _interopRequireDefault(_from);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : {
  default: obj }; }

(exports.default = function (arr) {
  if (Array.isArray(arr)) {
    for (var i = 0, arr2 = Array(arr.length); i < arr.length; i++) {
      arr2[i] = arr[i];
    }
    return arr2;
  } else {
    return (0, _from2.default)(arr);
  }
});


// WEBPACK FOOTER
// ./node_modules/babel-runtime/helpers/toConsumableArray.js
// module id = 69
// module chunks = 0
Klass.instancePool.pop();
Klass.call(instance, copyFieldsFrom);
return instance;
}
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;

var addPoolingTo = function (CopyConstructor, pooler) {
  var NewKlass = CopyConstructor;
  NewKlass.instancePool = [];
  NewKlass.getPooled = pooler || DEFAULT_POOLER;
  if (!NewKlass.poolSize) {
    NewKlass.poolSize = DEFAULT_POOL_SIZE;
  }
  NewKlass.release = standardReleaser;
  return NewKlass;
};

var PooledClass = {
  addPoolingTo: addPoolingTo,
  oneArgumentPooler: oneArgumentPooler,
  twoArgumentPooler: twoArgumentPooler,
  threeArgumentPooler: threeArgumentPooler,
  fourArgumentPooler: fourArgumentPooler
};

module.exports = PooledClass;
main React package is deprecated,’ + ‘ and will be removed in React v16.0.’ + ‘ Use the latest available v15.* prop-
types package from npm instead.’ + ‘ For info on usage, compatibility, migration and more, see ’ + 'https://fb.me/prop-types-docs');
    didWarnPropTypesDeprecated = true;
    return ReactPropTypes;
  };

  Object.defineProperty(React, 'createClass', {
    get: function () {
      lowPriorityWarning(warnedForCreateClass, 'Accessing createClass via the main React package is deprecated,’ + ‘ and will be removed in React v16.0.’ + ‘ Use a plain JavaScript class instead. If you’re not yet ’ + ‘ready to migrate, create-react-class v15.* is available ’ + ‘on npm as a temporary, drop-in replacement.’ + ‘ For more info see https://fb.me/react-create-class');
      warnedForCreateClass = true;
      return createReactClass;
    }
  });

  // React.DOM factories are deprecated. Wrap these methods so that
  // invocations of the React.DOM namespace and alert users to switch
  // to the ‘react-dom-factories’ package.
  var ReactDOMFactories = false;
  Object.keys(ReactDOMFactories).forEach(function (factory) {
    React.DOM[factory] = function () {
      if (!warnedForFactories) {
        lowPriorityWarning(false, 'Accessing factories like React.DOM.%s has been deprecated ' + 'and will be removed in v16.0+. Use the ’ + ‘react-dom-factories package instead. ' + 'Version 1.0 provides a drop-in replacement.' + ' For more info see https://fb.me/react-dom-factories', factory);
        warnedForFactories = true;
      }
      return ReactDOMFactories[factory].apply(ReactDOMFactories, arguments);
    };
  });

  module.exports = React;

  // WEBPACK FOOTER
  // module id = 78
  // module chunks = 0

  /**
   * Copyright (c) 2014-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 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: `key` is not a prop. Trying to access it will result ' + 'in `undefined` being returned. If you need to access the same `value` within the child component, you should pass it as a different `value`. (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: `ref` is not a prop. Trying to access it will result ' + 'in `undefined` being returned. If you need to access the same `value` within the child component, you should pass it as a different `value`. (https://fb.me/react-special-props),
        displayName) : void 0;
      }
    };
    warnAboutAccessingRef.isReactWarning = true;
    Object.defineProperty(props, 'ref', { get: warnAboutAccessingRef,
      configurable: true
    });
  }

  function createReactClass(props, displayName) {
    specialPropKeyWarningShown = true;
    specialPropRefWarningShown = true;
    process.env.NODE_ENV !== 'production' ? warning(false, 'Accessing factories like React.DOM.%s has been deprecated ’ + ‘and will be removed in React v16.0+. Use the ’ + ‘react-dom-factories package instead. ' + 'Version 1.0 provides a drop-in replacement.' + ' For more info see https://fb.me/react-dom-factories', factory);
    warnedForFactories = true;
    return ReactDOMFactories[factory].apply(ReactDOMFactories, arguments);
  }

  module.exports = createReactClass;
change in behavior.

@param {string} type A type that describes the kind of element.

@param {string} key The key of the element.

@param {string} ref The ref of the element.

@param {string} props The props of the element.

@returns {string} The type of the element.

var ReactElement = function (type, key, ref, self, owner, props) {
  // 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 a commonly used development environment.
  element._store = {};

  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.
    if (Object.freeze) {
      Object.freeze(element.type);
      Object.freeze(element.key);
      Object.freeze(element.ref);
      Object.freeze(element._self);
      Object.freeze(element._source);
    }
  }

  return ReactElement.createElement(type, key, ref, self, owner, props);
};

/**
 * Return a function that produces ReactElements of a given type.
 * See https://facebook.github.io/react/docs/top-level-api.html
 */
ReactElement.createFactory = function (type) {
  var factory = ReactElement.createElement.bind(null, type);

  factory.type = type;

  return factory;
};

ReactElement.cloneAndReplaceKey = function (oldElement, newKey) {
  var newElement = ReactElement(oldElement.type, newKey, oldElement.ref,
  oldElement._self, oldElement._source, oldElement._owner, oldElement.props);

  return newElement;
};

Open Source Used In MSX SD-WAN Service Pack 4.0.0
newElement;

/**
 * Clone and return a new ReactElement using element as the starting point.
 * @param {ReactElement} element - The element to clone.
 * @returns {ReactElement} A cloned ReactElement.
 */
ReactElement.cloneElement = function (element, config, children) {
  var propName;

  // Original props are copied
  var props = _assign({},
    element.props);

  // Reserved names are extracted
  var key = element.key;
  var ref = element.ref;

  // Source is preserved since the owner is preserved.
  var self = element._self;

  // Owner will be preserved, unless ref is overridden
  var owner = element._owner;

  if (config !== null) {
    if (hasValidRef(config)) {
      ref = config.ref;
    }
    if (hasValidKey(config)) {
      key = "" + config.key;
    }
  }

  // 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;
  }

  // Resolve default props
  var defaultProps = element.type && element.type.defaultProps;
  if (config !== null) {
    var owner = ReactCurrentOwner.current;
    if (config !== null) {
      // Silently steal the ref from the
      ref = config.ref;
      owner = ReactCurrentOwner.current;
    }
  }

  // Remaining properties override existing props
  var props = _assign({},
    props,
    defaultProps);

  // Verify the object is a ReactElement
  return ReactElement(element.type, key, ref, self,
    source, owner, props);
};

/**
 * Verifies the object is a ReactElement.
 * @param {?object} object - The object to check.
 * @returns {boolean} Returns `true` if `object` is a valid component.
 * @final
 */
ReactElement.isValidElement = function (object) {
  return typeof object === 'object' && object !== null && object.$$typeof ===
    REACT_ELEMENT_TYPE;
};

module.exports = ReactElement;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react/lib/ReactElement.js
// module id = 79
// module chunks = 0
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 ()
          {
              this.constructor = ctor;
          }
          TempCtor.prototype = new TempCtor();
          ctor.prototype = new TempCtor();
          module.exports = inherits(ctor, superCtor);
      }
  }
}


//////////////////
// WEBPACK FOOTER
// ./node_modules/inherits/inherits_browser.js
// module chunks = 0

function (value) {
    if (!isValue(value)) throw new TypeError("Cannot use null or undefined");
    return value;
}


//////////////////
// WEBPACK FOOTER
// ./node_modules/es5-ext/object/valid-value.js
// module chunks = 0

exports.__esModule = true;

exports.default = function (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;
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/babel-runtime/helpers/objectWithoutProperties.js

var ctx = require('./_ctx');
var call = require('./_iter-call');
var isArrayIter = require('./_is-array-iter');
var anObject = require('./_an-object');
var toLength = require('./_to-length');
var getIterFn = require('./core.get-iterator-method');

function (iterable, entries, fn, that, ITERATOR) {
    var iterFn = ITERATOR ? function () { return iterable; } : getIterFn(iterable);
    var anObject = iterable
    var iterator = iterFn.call(iterable);

    var index = 0;
    var length, step, iterator, result;

    if (typeof iterable != 'function')
        throw TypeError(iterable + ' is not iterable!');
    // fast case for arrays with default iterator
    if (isArrayIter(iterFn))
        for (length = toLength(iterable.length); length > index; index++) {
            result = entries ? f(anObject(step = iterable[index])[0], step[1]) : f(iterable[index]);
            if (result === BREAK || result === RETURN) return result;
        } else for (iterator = iterFn.call(iterable); !(step = iterator.next()).done;) {
            result = call(iterator, f, step.value, entries);
            if (result === BREAK || result === RETURN) return result;
        }

    return BREAK;
}

exports.BREAK = BREAK;
exports.RETURN = RETURN;


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_for-of.js

function isNothing(subject) {
    return (typeof subject === 'undefined') || (subject === null);
}


function isObject(subject) {
    return (typeof subject === 'object') && (subject !== null);
}


function toArray(sequence) {
    if (Array.isArray(sequence)) return sequence;
    else if (isNothing(sequence)) return [];

    return [ sequence ];
}


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];
            target[key] = source[key];
        }
    }

    return target;
}


function repeat(string, count) {
    var result = '', cycle;

    for (cycle = 0; cycle < count; cycle += 1) {
        result += string;
    }

    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;


Open Source Used In MSX SD-WAN Service Pack 4.0.0 20279
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.explicit.forEach(function (type) {
      if (type.loadKind && type.loadKind !== 'scalar') {
        throw new YAMLError('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);
}

var Schema.DEFAULT = null;

module.exports = Schema;


Slide
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\\u0300-\\u036F\\u203F-\\u2040',

  /**
   * Map from property "standard name" to an object with info about how to set * the property in the DOM. Each
   * object contains:
   *
   * attributeName:
   *   Used when rendering markup or with `*Attribute()`.
   *
   * attributeNamespace
   * propertyName:
   *   Used on DOM node instances. (This includes properties that mutate
   *   due to 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.
   * mustUseProperty:
   *   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
   *   numeric and should be removed when set to a falsey value.
   * 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.
   * properties:
   *   Mapping from lowercase property names to the properly cased
   * version, used * to warn in the case of missing properties. Available only in __DEV__.
   */
  properties: {},

  /**
   * All of the isCustomAttribute() functions that have been injected.
   * */
  _isCustomAttributeFunctions: []
};

/* global __DEV__ */

Open Source Used In MSX SD-WAN Service Pack 4.0.0 - 20281
ReactRef.detachRefs(internalInstance, prevElement);

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,
            transaction, context);
    }

    internalInstance.receiveComponent(nextElement,
        transaction, context);

    if (refsChanged && internalInstance._currentElement &&
        internalInstance._currentElement.ref !== null) {
        * @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
function DOMLazyTree(node) { return { node: node, children: [] }; }

DOMLazyTree.prototype.toString = function() {
  return this.node.nodeName;
}

function DOMLazyTree.insertBefore(child, oldChild) {
  if (enableLazy) {
    insertTreeBefore(child, oldChild);
  } else {
    insertBefore(child, oldChild);
  }
}

function queueChild(tree, child) {
  if (enableLazy) {
    setInnerHTML(tree.node, child);
  } else {
    queueChild(child);
  }
}

function DOMLazyTree.replaceChildWithTree(oldChild, newChild) {
  if (enableLazy) {
    replaceChildWithTree(oldChild, newChild);
  } else {
    replaceChildWithTree(oldChild, newChild);
  }
}

function DOMLazyTree.setChildren(children) {
  if (enableLazy) {
    setChildrenInternal(children);
  } else {
    setChildren(children);
  }
}

function DOMLazyTree.cloneDeep() {
  return DOMLazyTree(DOMLazyTree.prototype.cloneNode(true));
}

function DOMLazyTree.toHTML() {
  return toString();
}

function DOMLazyTree.toStyle() {
  return toString();
}

function DOMLazyTree.toText() {
  return toString();
}

function DOMLazyTree.toJSON() {
  return toString();
}

function DOMLazyTree.toData() {
  return toString();
}

function insertTreeBefore(tree, child) {
  if (enableLazy) {
    insertTreeBefore(tree, child);
  } else {
    insertBefore(child, null);
  }
}

function replaceChildWithTree(tree, child) {
  if (enableLazy) {
    replaceChildWithTree(tree, child);
  } else {
    replaceChildWithTree(tree, child);
  }
}

function setInnerHTML(tree, html) {
  if (enableLazy) {
    setInnerHTML(tree.node, html);
  } else {
    setInnerHTML(tree.node, html);
  }
}

function setTextContent(tree, html) {
  if (enableLazy) {
    setTextContent(tree.node, html);
  } else {
    setTextContent(tree.node, html);
  }
}

function toString() {
  return this.node.nodeName;
}

function DOMLazyTree.insertTreeBefore(tree, child) {
  if (enableLazy) {
    insertTreeBefore(tree, child);
  } else {
    insertBefore(child, null);
  }
}

function DOMLazyTree.replaceChildWithTree(tree, child) {
  if (enableLazy) {
    replaceChildWithTree(tree, child);
  } else {
    replaceChildWithTree(tree, child);
  }
}

function DOMLazyTree.setChildren(children) {
  if (enableLazy) {
    setChildrenInternal(children);
  } else {
    setChildren(children);
  }
}

function DOMLazyTree.cloneDeep() {
  return DOMLazyTree(DOMLazyTree.prototype.cloneNode(true));
}

function DOMLazyTree.toHTML() {
  return toString();
}

function DOMLazyTree.toStyle() {
  return toString();
}

function DOMLazyTree.toText() {
  return toString();
}

function DOMLazyTree.toJSON() {
  return toString();
}

function DOMLazyTree.toData() {
  return toString();
}

function insertTreeBefore(tree, child) {
  if (enableLazy) {
    insertTreeBefore(tree, child);
  } else {
    insertBefore(child, null);
  }
}

function replaceChildWithTree(tree, child) {
  if (enableLazy) {
    replaceChildWithTree(tree, child);
  } else {
    replaceChildWithTree(tree, child);
  }
}

function setInnerHTML(tree, html) {
  if (enableLazy) {
    setInnerHTML(tree.node, html);
  } else {
    setInnerHTML(tree.node, html);
  }
}

function setTextContent(tree, html) {
  if (enableLazy) {
    setTextContent(tree.node, html);
  } else {
    setTextContent(tree.node, html);
  }
}

function toString() {
  return this.node.nodeName;
}
0","var META = require('./_uid')('meta');

var isObject = require('./_is-object');

var has = require('./_has');

var setDesc = require('./_object-dp').f;

var id = 0;

var isExtensible = Object.isExtensible || function () {
  return false;
}

var FREEZE = require('./_fails')('f');

var fastKey = function (it, create) {
  // return primitive with prefix
  if (!isObject(it)) return typeof it == 'symbol' ? it : (typeof it == 'string' ? 'S' : 'P') + it;
  // can't set metadata to uncaught frozen object
  if (!isExtensible(it)) FREEZE
  // not necessary to add metadata
  if (!create) return 'E';
  // adding missing metadata
  it[META] = it[META] || {};
  // return object ID
  return it[META].i;
}

var getWeak = function (it, create) {
  // can't set metadata to uncaught frozen object
  if (!isExtensible(it)) FREEZE
  // not necessary to add metadata
  if (!create) return false;
  // adding missing metadata
  it[META] = it[META] || {};
  // return hash weak collections IDs
  return it[META].w;
}

onFreeze = function (it) {
  if (FREEZE && !Meta.NEED) return it;
  return Meta(it);
};

var meta = module.exports;

//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_meta.js
// module id = 105
// module chunks = 0

module.exports = reactProdInvariant;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/eq.js
// module id = 107
// module chunks = 0

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//
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// 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 isUndefined(arg) {
  return arg === void 0;
}
exports.isUndefined = isUndefined;

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);
}


YAMLException.prototype =
          Object.create(Error.prototype);
YAMLException.prototype.constructor = YAMLException;

YAMLException.prototype.toString = function toString(compact) {
  var result = this.name + ': ';

  result += this.reason || '(unknown reason)';

  if (!compact && this.mark) {
    result += ' ' + this.mark.toString();
  }

  return result;
};


Object.create(YAMLException.prototype.constructor =
              YAMLException.prototype.constructor =

YAMLException.prototype.toString = function toString(compact) {
  var var result = this.name + ': ';

  result += this.reason || '(unknown reason)';

  if (compact && this.mark) {
    result += ' ' + this.mark.toString();
  }

  return result;
};


have to create a wrapping `\*\"dispatch\*\"` object that pairs the event with the listener.

```javascript
function accumulateDirectionalDispatches(inst, phase, event) {
  if (process.env.NODE_ENV !== 'production') {
    if (process.env.NODE_ENV !== 'production')
      warning(inst, 'Dispatching inst must not be null')
  }
  var listener = listenerAtPhase(inst, event, phase);
  if (listener) {
    event._dispatchListeners = accumulateInto(event._dispatchListeners, listener);
    event._dispatchInstances = accumulateInto(event._dispatchInstances, inst);
  }
}
```

```javascript
/**
 * Collect dispatches (must be entirely collected before dispatching - see unit
 * tests). Lazily allocate the array to conserve memory. We must loop through
 * each event and perform the traversal for each one. We cannot perform an
 * single traversal for the entire collection of events because each event may
 * have a different target.
 */
function accumulateTwoPhaseDispatchesSingle(event) {
  if (event && event.dispatchConfig.phasedRegistrationNames)
    EventPluginUtils.traverseTwoPhase(event._targetInst, accumulateDirectionalDispatches, event);
}
```

```javascript
/**
 * Accumulates without regard to direction, does not look for phased
 * registration names. Same as `accumulateDirectDispatchesSingle` but without
 * requiring that the `dispatchMarker` be the same as the dispatched ID.
 */
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);
    }
  }
}
```

```javascript
/**
 * Accumulates without regard to direction, does not look for phased
 * registration names. Same as `accumulateDirectDispatchesSingle` but without
 * requiring that the `dispatchMarker` be the same as the dispatched ID.
 */
function accumulateDirectDispatchesSingle(event) {
  if (event && event.dispatchConfig.registrationName) {
    accumulateDispatches(event._targetInst, null, event);
  }
}
```

```javascript
function accumulateEnterLeaveDispatches(leave, enter, from, to) {
  EventPluginUtils.traverseEnterLeave(from, to, accumulateDispatches, leave, enter);
}
```

```javascript
/**
 * Accumulates without regard to direction, does not look for phased
 * registration names. Same as `accumulateDirectDispatchesSingle` but without
 * requiring that the `dispatchMarker` be the same as the dispatched ID.
 */
function accumulateDirectDispatches(events) {
  forEachAccumulated(events, accumulateDirectDispatchesSingle);
}
```

```javascript
/**
 * Accumulates without regard to direction, does not look for phased
 * registration names. Same as `accumulateDirectDispatchesSingle` but without
 * requiring that the `dispatchMarker` be the same as the dispatched ID.
 */
function accumulateDirectDispatchesSkipTarget(events) {
  forEachAccumulated(events, accumulateDirectDispatchesSingleSkipTarget);
}
```

```javascript
var EventPropagators = {
  accumulateTwoPhaseDispatches: accumulateTwoPhaseDispatches,
  accumulateTwoPhaseDispatchesSkipTarget: accumulateTwoPhaseDispatchesSkipTarget,
  accumulateDirectDispatches: accumulateDirectDispatches,
  accumulateEnterLeaveDispatches: accumulateEnterLeaveDispatches,
};
```

module.exports = EventPropagators;

```
executed.

```javascript
var eventQueue = null;

* Dispatches an event and releases it back in the pool, unless persistent.

* @param {object} event Synthetic event to be dispatched.
* @param {boolean} simulated If the event is simulated (changes exn behavior)

* @private

* @return {boolean} true if event executed.
```
should never be null -- when is it?

```javascript
if (bankForRegistrationName) {
  var key = getDictionaryKey(inst);
  delete bankForRegistrationName[key];
}

/**
 * Deletes all listeners for the DOM element with the
 * supplied ID.
 */
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);
    }
  },

  /**
   * 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);
      }
    }
  },

  /**
   * Allows registered plugins an opportunity to
   * extract events from top-level
   * native browser events.
   *
   * @return {*} An accumulation of synthetic events.
   * @internal
   */
  extractEvents: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    var events;
    var plugins = EventPluginRegistry.plugins;
    for (var i = 0; i < plugins.length; i++) {
      // Not every plugin in the ordering may be loaded at runtime.
      var possiblePlugin = plugins[i];
      if (possiblePlugin) {
        var extractedEvents = possiblePlugin.extractEvents(topLevelType, targetInst, nativeEvent,
          nativeEventTarget);
        if (extractedEvents) {
          events = accumulateInto(events, extractedEvents);
        }
      }
    }
    return events;
  },

  /**
   * Enqueues a synthetic event that should be dispatched when
   * `processEventQueue` is invoked.
   *
   * An accumulation of synthetic events:
   * @return {*} A synthetic event that should be dispatched when
   * processEventQueue is invoked.
   */
  enqueueEvents: function (events) {
    if (events) {
      eventQueue =
        accumulateInto(eventQueue, events);
    }
  },

  /**
   * 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.
    var processingEventQueue
      = eventQueue;
    eventQueue = null;
    if (simulated) {
      for (var event in
        processingEventQueue) {
        executeDispatchesAndReleaseSimulated(event);
      }
    } else {
      for (var event in
        processingEventQueue) {
        executeDispatchesAndReleaseTopLevel(event);
      }
    }
  },

  /**
   * These are needed for
   * tests only. Do not use!
   */
  __purge: function () {
    listenerBank = {};
  },

  __getListenerBank: function () {
    return listenerBank;
  }
};

module.exports = EventPluginHub;
```
accept the user facing instance as an argument and map them back
* to internal methods.

Replace this with ES6: var ReactInstanceMap = new Map();

* This API should be called 'delete' but we'd have to make sure to always
* transform these to strings for IE support. When this transform is fully
* supported we can rename it.

function (key) {
  return key.
}

// TODO:

// webpack footer

/*!
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http://jedwatson.github.io/classnames
*/

var ReactInstanceMap = {
  has: function (key) {
    return 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;

/* global define */

(function () {
  var hasOwn = {}.hasOwnProperty;

  function classNames () {
    var classes = [];

    for (var i = 0; i < arguments.length; i++) {
      if (arguments[i]) {
        var argType = typeof arguments[i];
        if (argType === 'string' || argType === 'number') {
          classes.push(arguments[i]);
        } else if (Array.isArray(arguments[i])) {
          classes.push(classNames.apply(null, arguments[i]));
        } else if (argType === 'object') {
          for (var key in arguments[i]) {
            if (hasOwn.call(arguments[i], key) && arguments[i][key]) {
              classes.push(key);
            }
          }
        }
      }
    }

    return classes.join(' ');
  }

  if (typeof module !== 'undefined' && module.exports) {
    module.exports = classNames;
  } else if (typeof define === 'function' && typeof define.amd === 'object' && define.amd) {
    // register as 'classnames', consistent with npm package name
    define('classnames', [], function () {
      return classNames;
    });
  } else {
    window.classNames = classNames;
  }
}());

// webpack footer

/*!
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http://jedwatson.github.io/classnames
*/
type: NEW_THROWN_ERR

payload: serializeError(err)

export function newThrownErrBatch(errors) {
  return {
    type: NEW_THROWN_ERR_BATCH,
    payload: errors
  }
}

export function newSpecErr(err) {
  return {
    type: NEW_SPEC_ERR,
    payload: err
  }
}

export function newSpecErrBatch(errArray) {
  return {
    type: NEW_SPEC_ERR_BATCH,
    payload: errArray
  }
}

export function newAuthErr(err) {
  return {
    type: NEW_AUTH_ERR,
    payload: err
  }
}

export function clear(filter = {}) {
  return {
    type: CLEAR,
    payload: filter
  }
}

export function clearBy(filter = () => true) {
  return {
    type: CLEAR_BY,
    payload: filter
  }
}


module.exports =
isSymbol:

//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/isSymbol.js
// module id = 132
// module chunks = 0

var getNative = require('./_getNative');

/* Built-in method references that are verified to be native. */
var nativeCreate = getNative(Object, 'create');

module.exports =
nativeCreate;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_ListCache.js
// module id = 134
// module chunks = 0

var eq = require('./eq');

/**
 * Gets the data for `map`.
 *
 * @private
 * @param {Object} map The map to query.
 * @param {string} key The reference key.
 * @returns {*} Returns the map data.
 */
function getMapData(map, key) {
  var data = map.__data__;
  return isKeyable(key)
    ? data[typeof key == 'string' ? 'string' : 'hash']
    : data.map;
}

module.exports = getMapData;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_assocIndexOf.js
// module id = 135
// module chunks = 0

var isKeyable = require('./_isKeyable');

/**
 * The base implementation of `_.iteratee`.
 *
 * @private
 * @param {*} [value=_.identity] The value to convert to an iteratee.
 * @returns {Function} Returns the iteratee.
 */
function baseIteratee(value) {
  // Don't store the `typeof` result in a variable to avoid a JIT bug in Safari 9.
  // See https://bugs.webkit.org/show_bug.cgi?id=156034 for more details.
  if (typeof value == 'function') {
    return value;
  }
  if (value == null) {
    return identity;
  }
  if (typeof value == 'object') {
    return isArray(value)
      ? baseMatchesProperty(value[0], value[1])
      : baseMatches(value);
  }
  return property(value);
}

module.exports = baseIteratee;


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paramValues = state.getIn(['meta', 'paths', ...pathMethod, 'parameters'], fromJS([]))

let paramValues = operationWithMeta(state, ...pathMethod, List())

return paramValues.reduce((hash, p) => {
  let value = isXml && p.get('in') === 'body' ? p.get('value_xml') : p.get('value')
  return hash.set(paramToIdentifier(p, { allowHashes: false }), value)
}, fromJS({}))

return paramValues.reduce((hash, p) => {
  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) => p.get('in') === inValue)
  }
}

// True if any parameter includes 'type': ?
export function parametersIncludeType(parameters, typeValue = '') {
  if (List.isList(parameters)) {
    return parameters.some((p) => p.get('type') === typeValue)
  }
}

// Get the selected produces value for an operation
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 consumsValue = state.getIn(['meta', 'paths', ...pathMethod, 'consumes_value'], null)

  const producesValue = currentProducesFor(state, pathMethod)

  return consumesOptionsFor(state, pathMethod) || producesOptionsFor(state, pathMethod)
}

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

  let scheme = state.get('scheme')

  return scheme || state.getIn(['_defaultScheme']) || urlScheme || ''
}

export const canExecuteScheme = (state, path, method) => {
  return ['http', 'https'].indexOf(operationScheme(state, path, method)) > -1
}

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
// ./node_modules/core-js/library/modules/_an-instance.js
// module id = 149
// module chunks = 0
var hide = require('./_hide');
module.exports = function (target, src, safe) {
  for (var key in src) {
    if (safe

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---

* - and a `close` method that accepts the precomputation. `close` is invoked
  when the
*

---

* Transactional plugin API:
  * A module that has an `initialize` method that returns any
    `scrollTop` (an automatic scroll aware DOM).
  * (Future use case): Layout calculations before and after DOM
    content.
  * (Future use case): Wrapping particular flushes of the `ReactWorker` queue
    to preserve the
  * - Invoking any collected `componentDidUpdate` callbacks after rendering new
    reactivated.
  * - Flushing a queue of collected DOM mutations to the main UI thread after a
    reconciliation
  * - Restoring selection even in the event of an unexpected error.
  * - Deactivating events while

---

* Use cases:
  * Preserving the input selection ranges before/after

---

```javascript

---

```
wrapped process is completed, or has failed.

*\n* @param {Array<TransactionWrapper>} **transactionWrappers**
*  that implement `initialize` and `close`.
* @return {Transaction} Single transaction for reuse

in thread.

*\n* @param {Object} **scope**
  Member of scope to call.
* @param {Object} **method**
  Scope to invoke from.

*\n* @param {Object} **scope**
  Argument to pass to the method.

*\n* @param {Object} **method**
  Argument to pass to the method.

*\n* @param {Object} **scope**
  Argument to pass to the method.

*\n* @param {Object} **method**
  Argument to pass to the method.

*\n* @returns {Array<TransactionWrapper>} Array of transaction wrappers.

*\n* getTransactionWrappers: null,

*\n* @returns {Object} eslint-disable space-before-function-paren

*\n* executes the function within a safety window. Use this for the top level

*\n* methods that result in large amounts of computation/mutations that would

*\n* need to be safely checked. The optional arguments helps prevent the need

*\n* to bind in many cases.

*\n* @param {function} **method**
  Member of scope to call.

*\n* @param {Object} **scope**
  Scope to invoke from.

*\n* @returns {Array<TransactionWrapper>} Array of transaction wrappers.

*\n* @returns {Object} eslint-disable space-before-function-paren

*\n* performs the function within a safety window. Use this for the top level

*\n* methods that result in large amounts of computation/mutations that would

*\n* need to be safely checked. The optional arguments helps prevent the need

*\n* to bind in many cases.

*\n* @param {Array<TransactionWrapper>} **transactionWrappers**
  Array of transaction wrappers.

*\n* @returns {Array<TransactionWrapper>} Array of transaction wrappers.

*\n* getTransactionWrappers: null,

*\n* @returns {Object} eslint-disable space-before-function-paren

*\n* executes the function within a safety window. Use this for the top level

*\n* methods that result in large amounts of computation/mutations that would

*\n* need to be safely checked. The optional arguments helps prevent the need

*\n* to bind in many cases.
and more favorable whitespace behavior.  
// TODO: What to do on a detached node? 
if (node.parentNode) {
  node.parentNode.replaceChild(node, node);
} // We also implement a workaround for non-
visible tags disappearing into
// thin air on IE8, this only happens if there is no visible text
// in-front of the non-visible tags. Piggyback on the whitespace fix
// and simply check if any non-visible tags appear in the
source if (WHITESPACE_TEST.test(html)) || html[0] === '<' &amp;&amp; NONVISIBLE_TEST.test(html)) {
  // Recover leading whitespace by temporarily prepending any character.
  \n // \uFEFF has the potential advantage of being zero-width/invisible.
  // UglifyJS drops +\uFEFF chars when parsing, so use String.fromCharCode\n // in hopes that this is preserved even if "\uFEFF" is transformed to\n // the actual Unicode character (by Babel, for example)\n  https://github.com/mishoo/UglifyJS2/blob/v2.4.20/lib/pure.js#L216\n
  node.innerHTML = String.fromCharCode(0xfeff) + html;

  // deleteData leaves an empty 'TextNode' which
  // offsets the index of all\n  // children. Definitely want to avoid this:\n  var textNode = node.firstChild;
  if (textNode.data.length === 1) {
    node.removeChild(textNode);
  } else {
    textNode.deleteData(0, 1);
  }
} \n
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/setInnerHTML.js
// module id = 155
// module chunks = 0

/**
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 * Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root
 * directory of this source tree.
 *
 * Based on the escape-html library, which is used under the MIT License
 * below:
 *
 * Copyright (c) 2012-2013 TJ Holowaychuk
 * Copyright (c) 2015 Andreas Lubbe
 * Copyright (c) 2015 Tiancheng "Timothy" Gu
 *
 * Permission is hereby granted, free of charge, to any person obtaining\n * a
 * 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, copy, modify, merge, publish,
 * sublicense, and/or sell copies of the Software, and to\n * permit persons to whom the Software is furnished to do so,
 * subject to the following conditions:\n * The above copyright notice and this permission notice shall be\n * included in all copies or substantial portions of the Software.
 * The Software IS PROVIDED 'AS IS',
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 * THE WARRANTIES OF\n * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT.\n * IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
 * FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,\n * TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE\n * SOFTWARE OR THE
 * USE OF THE SOFTWARE.
 * Escapes text to prevent scripting attacks.
 * @param {text} Text value to escape.
 * @return {string} An
 * escaped string.
 */

function escapeTextContentForBrowser(text) {
  if (typeof text === 'boolean' || typeof text
    return '' + text;
  return escapeTextContentForBrowser(text);
}
// end code copied and modified from escape-html

/**
 * Escapes text to prevent scripting attacks.
 * @param {text} Text value to escape.
 * @return {string} An
 * escaped string.
 */

function escapeTextContentForBrowser(text) {
  if (typeof text === 'boolean' || typeof text
    return '' + text;
  return escapeTextContentForBrowser(text);
}
// end code copied and modified from escape-html

/**
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"Open Source Used In MSX SD-WAN Service Pack 4.0.0 20301"
Summary of `ReactBrowserEventEmitter` event handling:
- Top-level delegation is used to trap most native browser events. This may only occur in the main thread and is the responsibility of `ReactEventListener`, which is injected and can therefore support pluggable event sources. This is the only work that occurs in the main thread.
- We normalize and de-duplicate events to account for browser quirks. This may be done in the worker thread.
- Forward these native events (with the associated top-level type used to trap it) to `EventPluginHub`, which in turn will ask plugins if they want to extract any synthetic events.
- The `EventPluginHub` will then process each event by annotating them with a "dispatches", a sequence of listeners and IDs that care about that event.
- The `EventPluginHub` then dispatches the events.

Overview of React and the event system:
- Top-level delegation is used to trap most native browser events. This may only occur in the main thread and is the responsibility of `ReactEventListener`, which is injected and can therefore support pluggable event sources. This is the only work that occurs in the main thread.
- We normalize and de-duplicate events to account for browser quirks. This may be done in the worker thread.
- Forward these native events (with the associated top-level type used to trap it) to `EventPluginHub`, which in turn will ask plugins if they want to extract any synthetic events.
- The `EventPluginHub` will then process each event by annotating them with a "dispatches", a sequence of listeners and IDs that care about that event.
- The `EventPluginHub` then dispatches the events.

Get the latest React documentation and source code at https://github.com/facebook/react

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// directly.
if (!Object.prototype.hasOwnProperty.call(mountAt, topListenersIDKey)) {
  mountAt[topListenersIDKey] = reactTopListenersCounter++;

  alreadyListeningTo[mountAt[topListenersIDKey]] = {};
  return
}

alreadyListeningTo[mountAt[topListenersIDKey]] *=
  ReactBrowserEventEmitter
    .useTo attach top-level event listeners.
  For * example:
  * EventPluginHub.putListener('myID', 'onClick', myFunction);

  This would allocate a "registration" of `(onClick, myFunction)` on 'myID'.
  * @internal

  ReactBrowserEventEmitter
    .assign({}, ReactEventEmitterMixins,
    Injectable event backend
    ReactEventEmitter: null,
    injection: {
      @param {object} ReactEventListener
      * @return {boolean}
      True if callbacks should be enabled.

      enable: function (enabled) {
        if (ReactBrowserEventEmitter.ReactEventListener) {
          ReactBrowserEventEmitter.ReactEventListener.setEnabled(enabled);
        }
      },
    },
    /**
     * We listen for bubbled touch events on the document object.
     * Firefox v8.01 (and possibly others) exhibited strange behavior when
     * mounting `onmousemove` events at some node that was not the document.
     * The symptoms were that if your mouse is not moving over something
     * contained within that mount point (for example on the background)
     * the * top-level listeners for `onmousemove` won't be called. However, if you
     * register the 'mousemove' on the document object, then it will of course
     * catch all 'mousemove's. This along with iOS quirks, justifies
     * restricting
     * top-level listeners to the document object only, at least for these
     * movement types of events and possibly all events.

     * Also, `keyUp`/`keyPress`/`keydown` do not bubble to the window on IE, but
     * they bubble to document.

     * @param {string} registrationName Name of listener (e.g. 'onClick').
     * @param {object}
     * contentDocumentHandle Document which owns the container
     */
  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.hasOwnProperty(dependency) &
          & isListening[dependency]) {
        if (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('scroll', true)) {
            ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topScroll', 'scroll', mountAt);
          } else {
            ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topScroll', 'scroll', 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
          } else {
            ReactBrowserEventEmitter.ReactEventListener.WINDOW_HANDLE;
          } else if
            (isEventSupported('focus', true)) {
            ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topFocus', 'focus', mountAt);
          } else if
            (isEventSupported('focusout')) {
            // IE has 'focusin' and 'focusout' events which bubble.
            // @see
            http://www.quirksmode.org/blog/archives/2008/04/delegating_the.html
          } else if
            (isEventSupported('blur', mountAt)) {
            ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topBlur', 'blur', 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
          } else if
            (isEventSupported('focusout')) {
            // IE has 'focusin' and 'focusout' events which bubble.
            // @see
            http://www.quirksmode.org/blog/archives/2008/04/delegating_the.html
          }
        }
      )
    }

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ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topFocus', 'focusin', mountAt);
ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topBlur', 'focusout', mountAt);

if (isListening.topFocus == true) {
  ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topFocus', 'focusin', mountAt);
} else if (topEventMapping.hasOwnProperty(dependency)) {
  ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent(dependency, topEventMapping[dependency], mountAt);
}

isListening[dependency] = true;

trapBubbledEvent: function (topLevelType, handlerBaseName, handle) {
  return ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent(topLevelType, handlerBaseName, handle);
}

trapCapturedEvent: function (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/6887
 */
supportsEventPageXY: function () {
  if (!document.createEvent) {
    return false;
  }
  var ev = document.createEvent('MouseEvent');
  return ev != null && 'pageX' in ev; }

/**
 * Lists 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
 * SyntheticMouseMoveEvent and only when pageX/pageY isn’t supported (legacy browsers).
 */
ensureScrollValueMonitoring: function () {
  if (hasEventPageXY === undefined) {
    hasEventPageXY = ReactBrowserEventEmitter.supportsEventPageXY();
  }
  if (!hasEventPageXY && !isMonitoringScrollValue) {
    var refresh = ViewportMetrics.refreshScrollValues;
    ReactBrowserEventEmitter.ReactEventListener.monitorScrollValue(refresh);
    isMonitoringScrollValue = true;
  }
}

module.exports = ReactBrowserEventEmitter;

FOOTER

FOOTER

FOOTER
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---

```javascript
/**
 * Before a rule.
 *
 * @param {String} beforeName
 * @param {String} ruleName
 * @param {Function} fn
 * @param {Object} options
 */

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;
};

/**
 * After a rule.
 *
 * @param {String} afterName
 * @param {String} ruleName
 * @param {Function} fn
 * @param {Object} options
 */

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
 * @param {Boolean} strict
 * @api private
 */

Ruler.prototype.enable = function (list, strict) {
  list = !Array.isArray(list)
      ? [list] : list;
  if (strict) {
    this.__rules__.forEach(function (rule) {
      rule.enabled = false;
    });
  }
  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
 * @api private
 */

Ruler.prototype.disable = function (list) {
  list = !Array.isArray(list)
      ? [list] : list;
  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;
```

---

```
```
bug keys

module.exports = (constructor, hasOwnProperty, isPrototypeOf, propertyIsEnumerable, toLocaleString, toString, valueOf)

// getting tag from 19.1.3.6 Object.prototype.toString()
var cof = require('./_cof');

module.exports = function (it) {
  var O, T, B;
  return it === undefined ? 'Undefined' : it === null ? 'Null'
    // @@toStringTag case
    : typeof (T = tryGet(O = Object(it), TAG)) == 'string' ? T
    // builtinTag case
    : ARG ? cof(O) : // ES3 arguments fallback
        (B = cof(O)) == 'Object' && typeof O.callee == 'function' ? 'Arguments' : B;
};

function PromiseCapability(C) {
  var resolve, reject;
  this.promise = new C(function ($$resolve, $$reject) {
    if (resolve !== undefined || reject !== undefined) throw TypeError('Bad Promise constructor');
    resolve = $$resolve;
    reject = $$reject;
  });
  this.resolve = aFunction(resolve);
  this.reject = aFunction(reject);
}

module.exports.f = function (C) {
  return new PromiseCapability(C);
};
function (value) {
    if (typeof value === 'object') {
        return destroyCircular(value, []);
    }

    const seen = new Set();
    const to = [];
    Object.keys(value).forEach(key => {
        const value = value[key];
        if (Array.isArray(value)) {
            to.push({ key, value });
        } else {
            to.push({ key, value });
        }
    });

    return to;
};

function quickCloneArray(input) {
    return input.map(cloneValue);
}

function quickCloneObject(input) {
    const output = {};
    for (let key in input) {
        if (!input.hasOwnProperty(key)) {
            continue;
        }
        output[key] = cloneValue(input[key]);
    }
    return output;
}

function executeDeepMerge(target) {
    let objects = arguments.length > 1 ? arguments[1] : [];

    let options = {
        arrayBehaviour: options.arrayBehaviour || 'replace' // Can be "merge" or "replace";
    };

    let output = target || {};

    for (let oindex = 0; oindex < objects.length; oindex++) {
        let object = objects[oindex];
        let key = Object.keys(object)[0];
        let value = object[key];
        let type = getTypeOf(value);
        let existingValue = output[key]; // Clone the target object without breaking references
        let existingValueType = getTypeOf(existingValue);

        if (type === 'object') {
            output[key] = executeDeepMerge({}, [existingValue, quickCloneObject(value)], options);
        } else if (type === 'array') {
            if (existingValueType === 'array') {
                output[key] = options.arrayBehaviour === 'merge' ? output[key].concat(value) : value;
            } else {
                output[key] = quickCloneArray(value);
            }
        } else {
            output[key] = value;
        }
    }

    return output;
}
Checks if `value` is a property name and not a property path.

```javascript
/**
 * Checks if `value` is a property name and not a property path.
 * @private
 * @param {*} value The value to check.
 * @param {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;
  }
  var reIsPlainProp = /^\w*$/;
  var reIsDeepProp = /[\w.\[\]]$/;
  return reIsPlainProp.test(value) ||
         !reIsDeepProp.test(value) ||
         (object != null && & value in Object(object));
}
```

```javascript
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-296f66afa6",
  "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
}
```

```javascript
export const sampleFromSchema = (schema, config={}) => {
  let { type, example, properties, additionalProperties, items } = objectify(schema)
  let {
    includeReadOnly, includeWriteOnly
  } = config

  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.
      return typeof val === "string" && val.indexOf("#") > -1
    })
  }

  if(!type) {
    if(properties) {
      type = "object"
    } else if(items) {
      type = "array"
    } else {
      return
    }
  }

  name = name || "notagname"
  // add prefix to name if exists
  displayName = (prefix ? prefix + name : name)
  let fn = primitives[`${type}_${format}`] || primitives[type]
  let defaultValue = objectifySchema.default
  let res = {}
  let { xml } = schema
  let { name, prefix, namespace } = xml

  if(!type) {
    if(properties || additionalProperties) {
      type = "object"
    } else if(items) {
      type = "array"
    } else {
      return
    }
  }

  name = name || "notagname"
  // add prefix to name if exists
  displayName = (prefix ? prefix + name : name)
```
prefix + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:"\:" + `\:...
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```
'use strict';

var R = typeof Reflect === 'object' ? Reflect : null
var ReflectApply = R &&
Function.prototype.apply.call(target, receiver, args);

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 print a warning if more than 10 listeners are added to it. This is a useful default
// which helps finding memory leaks. 

EventEmitter.EventEmitter = EventEmitter;

EventEmitter.prototype.setMaxListeners = function setMaxListeners(n) {
  if (typeof n !== 'number' || n < 0 || NumberIsNaN(n)) {
    throw new RangeError('The value of "maxListeners" is out of range. It must be a non-negative number. Received ' + n + '.');
  }
  EventEmitter.prototype.setMaxListeners.call(this, n);
  return this;
};

function $getMaxListeners(that) {
  if (that._maxListeners === undefined)
    return EventEmitter.defaultMaxListeners;
  return that._maxListeners;
}

EventEmitter.prototype.getMaxListeners = function getMaxListeners() {
  var m;
  var len = argument.length;
  var listeners = new Array(len);
  for (var i = 0; i < len; i++)
    listeners[i] = argument[i];

  return listeners;

};

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 (doError) {
    var er;
    if (args.length > 0)
      er = args[0];
    if (er instanceof Error) {
      throw er; // Unhandled 'error' event
    }
    // At least give some kind of context to the user
    var err = new Error('Unhandled
error: ' + (er ? ' (' + er.message + ')' : ''));
    err.context = er;
    throw err; // Unhandled 'error' event
  }

  var handler = events[type];
  if (handler === undefined)
    return false;
  if (typeof handler === 'function')
    ReflectApply(handler, this, args);
  else if (typeof handler === 'object')
    for (var i = 0; i < len; i++)
      ReflectApply(listeners[i], this, args);

  return true;
};

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 listener);
  }

  events = target._events;
  if (events === undefined) {
    events = target._events = Object.create(null);
    target._eventsCount = 0;
  } else
    events[type] = listener;

  return true;
};

```

to change to array.

EXISTING = events[type] =

prepend ? [listener, existing] : [existing, listener];

if we've already got an array, just append.

else if (prepend)

[existing.unshift(listener)];

else {

existing.push(listener);
}

// If we've already got an array, check for listener leak

m = $getMaxListeners(target);

if (m > 0 & &

existing.length > m & &

existing.warned)

existing.warned = true;

No error code for this since it is a

Warning

eslint-disable-next-line no-restricted-syntax

var w = new Error('Possible EventEmitter memory

leak detected. ' +

existing.length + ' + ' + String(type) + ' + ' +

' listeners' +

' added. Use emitter.setMaxListeners() to ' +

' increase limit');

w.name =

'MaxListenersExceededWarning';

w.emitter = target;

w.type = type;

w.count = existing.length;

ProcessEmitWarning(w);

return target;

EventEmitter.prototype.addListener = function

addListener(type, listener) {

EventEmitter.prototype.prependListener =
    function

prependListener(type, listener) {

onceWrapper() {

var args = [];

for (var i = 0; i < arguments.length; i++) args.push(arguments[i]);

if (!this.fired) {

this.target.removeListener(this.type, this.wrapFn);

this.fired = true;

ReflectApply(this.listener, this.target, args);

} else if (typeof list !== 'function') {

position = -1;

for (i = list.length - 1; i >= 0; i--) {

if (list[i] === listener || list[i].listener === listener) {

originalListener = list[i].listener;

position = i;

break;
}
}

if (position < 0)

return this;

if (list === undefined)

return this;

if (list === listener || list === listener)

if (listener[fired] = false, wrapFn: undefined, target: type, listener: listener |}

if (!this.fired) {

this.target.removeListener(this.type, this.wrapFn);

this.fired = true;

ReflectApply(this.listener, this.target, args);

} else if (typeof list !== 'function') {

position = -1;

for (i = list.length - 1; i >= 0; i--) {

if (list[i] === listener || list[i].listener === listener) {

originalListener = list[i].listener;

position = i;

break;
}
}

if (position < 0)

return this;

if (list === undefined)

return this;

if (list === listener || list === listener)

if (listener[fired] = false, wrapFn: undefined, target: type, listener: listener |}

if (!this.fired) {

this.target.removeListener(this.type, this.wrapFn);

this.fired = true;

ReflectApply(this.listener, this.target, args);

} else if (typeof list !== 'function') {

position = -1;

for (i = list.length - 1; i >= 0; i--) {

if (list[i] === listener || list[i].listener === listener) {

originalListener = list[i].listener;

position = i;

break;
}
}

if (position < 0)

return this;

if (list === undefined)

return this;

if (list === listener || list === listener)

if (listener[fired] = false, wrapFn: undefined, target: type, listener: listener |}

if (!this.fired) {

this.target.removeListener(this.type, this.wrapFn);

this.fired = true;

ReflectApply(this.listener, this.target, args);

} else if (typeof list !== 'function') {

position = -1;

for (i = list.length - 1; i >= 0; i--) {

if (list[i] === listener || list[i].listener === listener) {

originalListener = list[i].listener;

position = i;

break;
}
}

if (position < 0)

return this;

if (list === undefined)

return this;

if (list === listener || list === listener)

if (listener[fired] = false, wrapFn: undefined, target: type, listener: listener |}

if (!this.fired) {

this.target.removeListener(this.type, this.wrapFn);

this.fired = true;

ReflectApply(this.listener, this.target, args);

} else if (typeof list !== 'function') {

position = -1;

for (i = list.length - 1; i >= 0; i--) {

if (list[i] === listener || list[i].listener === listener) {

originalListener = list[i].listener;

position = i;

break;
}
}

if (position < 0)

return this;

if (list === undefined)

return this;

if (list === listener || list === listener)

if (listener[fired] = false, wrapFn: undefined, target: type, listener: listener |}

if (!this.fired) {

this.target.removeListener(this.type, this.wrapFn);

this.fired = true;

ReflectApply(this.listener, this.target, args);

} else if (typeof list !== 'function') {

position = -1;

for (i = list.length - 1; i >= 0; i--) {

if (list[i] === listener || list[i].listener === listener) {

originalListener = list[i].listener;

position = i;

break;
}
}

if (position < 0)

return this;

if (list === undefined)

return this;

if (list === listener || list === listener)

if (listener[fired] = false, wrapFn: undefined, target: type, listener: listener |}

if (!this.fired) {

this.target.removeListener(this.type, this.wrapFn);

this.fired = true;

ReflectApply(this.listener, this.target, args);

} else if (typeof list !== 'function') {

position = -1;

for (i = list.length - 1; i >= 0; i--) {

if (list[i] === listener || list[i].listener === listener) {

originalListener = list[i].listener;

position = i;

break;
}
}

if (position < 0)

return this;

if (list === undefined)

return this;

if (list === listener || list === listener)

if (listener[fired] = false, wrapFn: undefined, target: type, listener: listener |}

if (!this.fired) {

this.target.removeListener(this.type, this.wrapFn);

this.fired = true;

ReflectApply(this.listener, this.target, args);

} else if (typeof list !== 'function') {

position = -1;

for (i = list.length - 1; i >= 0; i--) {

if (list[i] === listener || list[i].listener === listener) {

originalListener = list[i].listener;

position = i;

break;
}
}

if (position < 0)

return this;

if (list === undefined)

return this;

if (list === listener || list === listener)

if (listener[fired] = false, wrapFn: undefined, target: type, listener: listener |}

if (!this.fired) {

this.target.removeListener(this.type, this.wrapFn);

this.fired = true;

ReflectApply(this.listener, this.target, args);

} else if (typeof list !== 'function') {

position = -1;

for (i = list.length - 1; i >= 0; i--) {

if (list[i] === listener || list[i].listener === listener) {

originalListener = list[i].listener;

position = i;

break;
}
}

if (position < 0)

return this;

if (list === undefined)

return this;

if (list === listener || list === listener)

if (listener[fired] = false, wrapFn: undefined, target: type, listener: listener |}
this.removeListener(type, listeners); } else if (listeners !== undefined) {
  // LIFO order
  for (i = listeners.length - 1; i >= 0; i--) {
    this.removeListener(type, listeners[i]);
  }
}

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];
  return unwrap ? unwrapListeners(evlistener) : arrayClone(evlistener, evlistener.length);
}

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.listenerCount = listenerCount;

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 spliceOne(list, index) {
  for (; index + 1 < list.length; index++)
    list[index] = list[index + 1];
  list.pop();
}

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 (object) { // if (realHasInstance.call(this, object)) return true;
    if (this !== Writable) return false;

    return object instanceof WritableState; // object._writableState
  }));
} else {

  realHasInstance = function (object) {
    return object instanceof WritableState;  // Writable ctor is applied to Duplexes, too.
  };
}

function Writable(options) {
  Duplex = Duplex || require('./_stream_duplex');

  // Writable ctor is a legacy. this.writable is true; if (options) (the function)
  // `realHasInstance` is necessary because using plain `instanceof` would return false, as no `_writableState` property is attached.
  // 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.  

  // We can pipe Writable streams, which is just wrong.  
  // Writable.prototype.pipe = function () { // err.
    this.emit('error', new Error('Cannot pipe, not readable'));
  };

  // TODO: defer error events consistently everywhere, not just the callback
  // inline.

  pna.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 as a chunk and undefined/non-string values are 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);
  //     pna.nextTick(cb, er);
  //     valid = false;
  //   }
  //   return valid;
  // }

  // if we're already writing something, then just put this in the queue, and wait our turn.  Otherwise, call _write
  // If we return false, then we need a drain event, so set that
  // flag.  function writeOrBuffer(stream, state, isBuf, chunk, encoding, cb) {
  //   var state = this._writableState; // node.js internal
  //   var ret = false;
  //   var isBuf = state.objectMode && is _uint8Array(chunk);
  //   if (isBuf && !Buffer.isBuffer(chunk))
  //     chunk = _uint8ArrayToBuffer(chunk);
  //   if (typeof encoding === 'function')
  //     enc = encoding;
  //   else if (encoding) encoding = state.defaultEncoding;
  //   if (typeof cb
  //     cb = nop; // if (state.ended)
  //     writeAfterEnd(chunk, cb);
  //   if (isBuf) writeOrBuffer(state, isBuf, chunk, encoding, cb);
  //   if (state.needDrain) writeAfterEnd(chunk, encoding, cb);
  //   state.length += chunk.length;
  //   if (state.length < state.highWaterMark)
  //     return true;
  //   state.needDrain = true;
  //   if (state.writing || state.corked)
  //     state.length = state.writable ? state.chunk.length : state.length + len;
  //   state.length += chunk.length;
  // };

  // node::ParseEncoding() requires lower case.
  // if (typeof encoding === 'string') encoding = encoding.toLowerCase();
  // if (!(['hex', 'utf8', 'utf-8', 'ascii', 'binary', 'base64', 'ucs2', 'utf16le',
  // '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 = Buffer.from(chunk, encoding);
  //   }
  //   return chunk;
  // }

  // node::ParseEncoding() requires lower case.
  Object.defineProperty(Writable.prototype, 'writableHighWaterMark', {
    enumerable: false,
    get: function () {
      return this._writableState.highWaterMark;
    }
  });

  // making it explicit this property is not enumerable
  // because otherwise some prototype manipulation in
  // userland will fail
  get: function () { return this._writableState.highWaterMark; }
  // if we're already writing something, then just put this in the queue, and wait our turn.  Otherwise, call _write
  // If we return false, then we need a drain event, so set that flag.
  writeOrBufferStream(state, isBuf, chunk, encoding, cb) {
    if (isBuf) {
      var newChunk = decodeChunk(state, chunk, encoding);
      if (chunk !== newChunk) {
        isBuf = true;
        encoding = 'buffer';
        chunk = newChunk;
      }
      var len = state.objectMode ? state.chunk.length : state.length + len;
      var ret = state.length < state.highWaterMark;
      if (!ret) state.needDrain = true;
      if (state.writing || state.corked)
        state.length = state.lastBufferedRequest;
    }
  }

  lastBufferedRequest = chunk;
  encoding: encoding,
  isBuf: isBuf,
  callback: cb,
}
next: null;})

if (last) {
  last.next = state.lastBufferedRequest;
} else {
  state.bufferedRequest = state.lastBufferedRequest;
}
state.bufferedRequestCount += 1;
}

if (state.writing) {
  break;
}

if (entry === null) {
  state.bufferedRequestCount--;
  state.lastBufferedRequest = null;
}

last.next = state.lastBufferedRequest;
state.bufferedRequestCount -= 1;

if (entry.isBuf) {
  allBuffers = false;
}

if (entry) {
  var count = 0;
  var allBuffers = true;
  while (entry) {
    buffer.allBuffers = allBuffers;
    entry = entry.next;
    count += 1;
  }
}

var buffer = new Array(l);

var holder = state.corkedRequestsFree;

if (!holder) {
  buffer.length = state.length;
  buffer.allBuffers = allBuffers;
  buffer = doWrite(stream, state, len, chunk, encoding, cb);
  entry = entry.next;
  state.bufferedRequestCount--;
  state.lastBufferedRequest = null;
  if (holder) {
    state.corkedRequestsFree = holder;
  }
  state.corkedRequestsFree = holder;
  state.bufferedRequestCount = 0;
}
else {
  state.corkedRequestsFree = new CorkedRequest(state);
  state.bufferedRequestCount = 0;
}

// Slow case, write chunks one-by-one
while (entry) {
  var chunk = entry.chunk;
  var encoding = entry.encoding;
  var cb = entry.callback;
  var len = state.objectMode ? 1 : chunk.length;
  doWrite(stream, state, false, len, chunk, encoding, cb);
  entry = entry.next;
  state.bufferedRequestCount--;
  // if we didn't call the onwrite immediately, then // it means that we need to wait until it does.
  // also, that means that the chunk and cb are currently // being processed, so move the buffer counter past them.
  if (state.writing) {
    break;
  } else {
    while (entry) {
      buffer.allBuffers = allBuffers;
      entry = entry.next;
      count += 1;
    }
    buffer.allBuffers = allBuffers;
    doWrite(stream, state, true, state.length, buffer, ", holder.finish);
    doWrite is almost always async, defer these to save a bit of time
    // as the hot path ends with doWrite
    state.pendingcb++;
  }
  state.lastBufferedRequest = null;
  if (holder) {
    state.corkedRequestsFree = holder;
  }
  state.corkedRequestsFree = new CorkedRequest(state);
  state.bufferedRequestCount = 0;
}

// this can emit finish, and it will always happen

if (state.writableState.errorEmitted) {
  stream.emit('error', 'error', er);
} else {
  // the caller expect this to happen before if // it is async cb(er);
  stream._writableState.errorEmitted = true;
  stream.emit('error', 'error', er);
}
byObserver(MutationObserver);
	return (typeof WebKitMutationObserver === 'function')
byObserver(WebKitMutationObserver);
	return (typeof MutationObserver === 'function')
	byObserver(MutationObserver);
		if (typeof MutationObserver === 'function') {
			new MutationObserver(cb)
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AST.getLineNumberForPath : () => undefined

  let specStr = specSelectors.specStr()

  return resolve({

    fetch,
    spec: json,
    baseDoc: url,
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  }).then((spec, errors) => {

    errActions.clearOnErrors(err => {

      err.line = err.fullPath ? getLineNumberForPath(specStr, err.fullPath) : null

      err.err = errChecked.err

      console.error(errChecked.err)

      if(Array.isArray(errChecked.errors) && errChecked.errors.length > 0) {

        let preparedErrors = errChecked.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)
      }

      specActions.updateResolved(spec)
    })

    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, 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, paramName, paramIn, includeEmptyValue }

  }
}

export function clearValidateParams(payload) {

  return {

    type: CLEAR_VALIDATE_PARAMS,

    payload:

  }
}

export const validateParams = (payload, isOAS3) => {

  return {

    type: VALIDATE_PARAMS,

    payload:

  }
}

export const updateEmptyParamInclusion = (pathMethod, paramName, paramIn, includeEmptyValue) => {

  return {

    type: UPDATE_EMPTY_PARAM_INCLUSION,

    payload:

  }
}

export function clearValidateParams(payload) {

  return {

    type: CLEAR_VALIDATE_PARAMS,

    payload:

  }
}

export const validateParams = (payload, isOAS3) => {

  return {

    type: VALIDATE_PARAMS,

    payload:

  }
}
CLEAR_VALIDATE_PARAMS
payload: { pathMethod: payload }

export function changeConsumesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload: {
      pathMethod: { path, value, key: "consumes_value" }
    }
  }
}

export function changeProducesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload: {
      pathMethod: { path, value, key: "produces_value" }
    }
  }
}

export function setResponse(path, method, res) {
  return {
    payload: { path, method, res },
    type: SET_RESPONSE
  }
}

export function setRequest(path, method, req) {
  return {
    payload: { path, method, req },
    type: SET_REQUEST
  }
}

export function 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 function logRequest(req) {
  return {
    payload: req,
    type: LOG_REQUEST
  }
}

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.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, set it to empty string, so Swagger Client will treat it as present
            if (!paramValue || (paramValue && paramValue.size === 0)) {
              req.parameters[param.get("name")] = ""
            }
          }
        })
    }

    // if url is relative, parseUrl makes it absolute by inferring from `window.location`
    req.contextUrl = parseUrl(specSelectors.url()).toString()

    if (op && op.operationId) {
      req.operationId = op.operationId
    } else if (op && pathName && method) {
      req.operationId = fn.opId(op, pathName, method)
    }

    if (specSelectors.isOAS3()) {
      const namespace = `${pathName}:${method}`
      req.server = oas3Selectors.selectedServer(namespace) || oas3Selectors.selectedServer()
      const namespaceVariables = oas3Selectors.serverVariables({ server: req.server, namespace }).toJS()
      const globalVariables = oas3Selectors.serverVariables({ server: req.server }).toJS()
      req.serverVariables = Object.keys(namespaceVariables).length ? namespaceVariables : globalVariables
      req.requestContentType = oas3Selectors.requestContentType(pathName, method)
      req.responseContentType = oas3Selectors.responseContentType(pathName, method)
      if (specSelectors.isJSON(requestBody)) {
        req.requestBody = JSON.parse(requestBody)
      } else if (specSelectors.isOAS3()) {
        req.requestBody = fn.buildRequest(specSelectors.url())
      } else {
        req.requestBody = requestBody
      }
    }

    let parsedRequest = Object.assign({}, req)
    parsedRequest = fn.execute(parsedRequest)

    specActions.setRequest(req.pathName, req.method, parsedRequest)
    let requestInterceptorWrapper = fn.buildRequest(parsedRequest)
    specActions.setRequest(req.pathName, req.method, parsedRequest)
    let requestInterceptor = requestInterceptorWrapper

    let startTime = Date.now()
    let res = fn.execute(req)
    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? @ponela
specActions.executeRequest({
  extras, fetch, spec, pathName: path, method, parameters,
  requestContentType, scheme, responseContentType: requestContentType, 
  fn: requestPortName
})

export function clearResponse (path, method) {
  return {
    type: CLEAR_RESPONSE,
    payload: { path, method, fn: requestPortName },
  }
}

export function clearRequest (path, method) {
  return {
    type: CLEAR_REQUEST,
    payload: { path, method, fn: requestPortName },
  }
}

export function setScheme (scheme, path, method) {
  return {
    type: SET_SCHEME,
    payload: { scheme, path, method, fn: requestPortName },
  }
}

// WEBPACK FOOTER //
// module.exports = require("core-js/library/fn/promise");

module.exports = 
```javascript

function PromiseCapability (C) {
  var resolve, reject;
  this.promise = new C(function ($$resolve, $$reject) {
    if (resolve !== undefined || reject !== undefined) throw TypeError('Bad
  Promise constructor');
  resolve = $$resolve;
  reject = $$reject;
  });
  this.resolve = aFunction(resolve);
  this.reject = aFunction(reject);
}

module.exports.f = function (C) {
  return new PromiseCapability(C);
};

// WEBPACK FOOTER
// ./node_modules/babel-runtime/core-js/promise.js
// module id = 208
// module chunks = 0

var aFunction = require('./_a-function');

function PromiseCapability (C) {
  var resolve, reject;
  this.promise = new C(function ($$resolve, $$reject) {
    if (resolve !== undefined || reject !== undefined) throw TypeError('Bad
  Promise constructor');
  resolve = $$resolve;
  reject = $$reject;
  });
  this.resolve = aFunction(resolve);
  this.reject = aFunction(reject);
}

module.exports = {
  "default": require("core-js/library/fn/promise"),
  __esModule: true
};

```
Extract protocol information from a URL with/without double slash (`//'`).

```javascript
var match = protocolre.exec(address); if (match[1] !== '') {
  url.protocol = match[1];
}
```

The following if statements allow this module two have compatibility with
2 different API:

1. Node.js's `url.parse` api which accepts a URL, boolean as arguments
   where the boolean indicates that the query string should also be parsed.
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.

```javascript
if (!(this instanceof Url)) {
  return new Url(address, location, parser);
}
```

The `Url` function parses the query string, and resolves
URL information using the given location, parser, and
any relative paths.

```javascript
function Url(address, location, parser) {
  var relative, extracted, parse,
    instructions = rules.slice(),
    type = typeof location
    , url = this
    , i = 0;
```

The `Url` function parses the query string, and resolves
URL information using the given location, parser, and
any relative paths.

```javascript
function resolve(relative, base) {
  var path = (base || '').split('/').slice(0, -1).concat(relative.split('/')).join(' ');
  i = path.length;
  last = path.charAt(last); unshift = false;
  up = 0; while (i--) {
    if (path[i] === '..') {
      path.splice(i, 1);
    } else if (path[i] === '.') {
      path.splice(i, 1);
      up++;
    } else if (up) {
      if (up == 0) unshift = true;
      path.splice(i, 1);
      up--; }
    } }
```

The `Url` function parses the query string, and resolves
URL information using the given location, parser, and
any relative paths.

```javascript
function extractProtocol(address) {
  var match = protocolre.exec(address);

  return {
    protocol: match[1] ?
      match[1].toLowerCase() : '',
    slashes: !!match[2],
    rest: match[3]
  };
}
```

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URL information using the given location, parser, and
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```javascript
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  last = path.charAt(last); unshift = false;
  up = 0; while (i--) {
    if (path[i] === '..') {
      path.splice(i, 1);
    } else if (path[i] === '.') {
      path.splice(i, 1);
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  up = 0; while (i--) {
    if (path[i] === '..') {
      path.splice(i, 1);
    } else if (path[i] === '.') {
      path.splice(i, 1);
      up++;
    } else if (up) {
      if (up == 0) unshift = true;
      path.splice(i, 1);
      up--; }
    } }
```
plugin.

* @param {object} dispatchConfig Dispatch configuration for the event.

* @param {boolean} True if the event was successfully published.

* @private

* @function publishEventForPlugin(dispatchConfig, pluginModule, eventName)


!!EventPluginRegistry.eventNameDispatchConfigs.hasOwnProperty(eventName) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'EventPluginHub: More than one plugin attempted to publish the same event name, `%s`.', eventName) : _prodInvariant('99', eventName) : void 0;

EventPluginRegistry.eventNameDispatchConfigs[eventName] = dispatchConfig;

var phasedRegistrationNames = dispatchConfig.phasedRegistrationNames;

if (phasedRegistrationNames) {

  for (var phaseName in phasedRegistrationNames) {

    if (phasedRegistrationNames.hasOwnProperty(phaseName)) {

      var phasedRegistrationName = phasedRegistrationNames[phaseName];

      publishRegistrationName(phasedRegistrationName, pluginModule, eventName);
    }
  }
  return true;
}

else if (dispatchConfig.registrationName) {

  publishRegistrationName(dispatchConfig.registrationName, pluginModule, eventName);
  return true;
}

return false;

/**
 * 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 (registrationName === '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 to warn in the case of missing event handlers.
   * Available only in __DEV__.
   * @type {Object}
   */
  possibleRegistrationNames: process.env.NODE_ENV !== 'production' ? {} : null,

  // 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.
   * @param {array} InjectedEventPluginOrder
   * @internal
   * @see {EventPluginHub.injection.injectEventPluginOrder}
   */
  injectEventPluginOrder: function(injectedEventPluginOrder) {

    !!eventPluginOrder ? process.env.NODE_ENV !== 'production' ? invariant(false, 'EventPluginRegistry: Cannot inject event plugin ordering more than once. You are likely trying to load more than one copy of React.') : _prodInvariant('101') : void 0;

    // Clone the ordering so it cannot be dynamically mutated.

    eventPluginOrder = Array.prototype.slice.call(injectedEventPluginOrder);

    computePluginOrdering();

    }},

  /**
   * 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.
   * @param {object} injectedNamesToPlugins Map from names to plugin modules.
   * @internal
   * @see {EventPluginHub.injection.injectEventPluginsByName}
   */
  injectEventPluginsByName: function(injectedNamesToPlugins) {

    var isOrderingDirty = false;

    for (var pluginName in injectedNamesToPlugins) {

      if (injectedNamesToPlugins.hasOwnProperty(pluginName)) {

        var pluginModule = injectedNamesToPlugins[pluginName];

        if (namesToPlugins.hasOwnProperty(pluginName)) {

          // Clone the ordering so it cannot be dynamically mutated.

          eventPluginOrder = Array.prototype.slice.call(injectedEventPluginOrder);

          computePluginOrdering();

        }

        isOrderingDirty = true;
        break;
      }
    }

    if (isOrderingDirty) {

      computePluginOrdering();

      if (process.env.NODE_ENV !== 'production') {

        var pluginModules = Array.prototype.slice.call(injectedNamesToPlugins);

        for (var i = 0; i < pluginModules.length; i++) {

          var pluginModule = pluginModules[i];

          if (namesToPlugins.hasOwnProperty(pluginName)) {

            // Clone the ordering so it cannot be dynamically mutated.

            eventPluginOrder = Array.prototype.slice.call(injectedEventPluginOrder);

            computePluginOrdering();

          }

          isOrderingDirty = true;
          break;
        }
      }
    }

    return !isOrderingDirty;

  };

  // initial ordering: in the order plugins are injected

  eventPluginOrder = Array.prototype.slice.call(injectedEventPluginOrder);

  computePluginOrdering();

}
namesToPlugins[pluginName] !== pluginModule) {

  if (isOrderingDirty) {
    recomputePluginOrdering();
  }

  if (isOrderingDirty) {
    return EventPluginRegistry.registrationNameModules[dispatchConfig.registrationName] || null;
  }

  var pluginModule = EventPluginRegistry.registrationNameModules[dispatchConfig.registrationName];

  if (pluginModule) {
    return pluginModule;
  }

  return null;
}

var EventPluginRegistry = {  

  getPluginModuleForEvent: function (event) {
    var dispatchConfig = event.dispatchConfig;

    if (dispatchConfig.registrationName) {
      return EventPluginRegistry.registrationNameModules[dispatchConfig.registrationName] || null;
    }
    if (dispatchConfig.phasedRegistrationNames !== undefined) {
      // pulling phasedRegistrationNames out of dispatchConfig helps Flow see
      // that it is not undefined.
      var phasedRegistrationNames = dispatchConfig.phasedRegistrationNames;

      for (var phase in phasedRegistrationNames) {
        if (phasedRegistrationNames.hasOwnProperty(phase)) {
          var pluginModule = EventPluginRegistry.registrationNameModules[phasedRegistrationNames[phase]];
          if (pluginModule) {
            return pluginModule;
          }
        }
      }
    }
    return null;
  },

  _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];
      }
    }

    var possibleRegistrationNames = EventPluginRegistry.possibleRegistrationNames;
    for (var lowerCasedName in possibleRegistrationNames) {
      delete possibleRegistrationNames[lowerCasedName];
    }

    if (process.env.NODE_ENV !== 'production') {
      var possibleRegistrationNames = EventPluginRegistry.possibleRegistrationNames;
      for (var lowerCasedName in possibleRegistrationNames) {
        delete possibleRegistrationNames[lowerCasedName];
      }
    }
  },

  injectComponentTree: function (Injected) {
    ComponentTree = Injected;
    if (process.env.NODE_ENV !== 'production') {
      process.env.NODE_ENV !== 'production' ? warning(Injected && Injected.getNodeFromInstance && Injected.getInstanceFromNode, 'EventPluginUtils.injection.injectComponentTree(...): Injected module is missing getNodeFromInstance or getInstanceFromNode.') : void 0;
    }
  },

  injectTreeTraversal: function (Injected) {
    TreeTraversal = Injected;
    if (process.env.NODE_ENV !== 'production') {
      process.env.NODE_ENV !== 'production' ? warning(Injected && Injected.isAncestor && Injected.getLowestCommonAncestor, 'EventPluginUtils.injection.injectTreeTraversal(...): Injected + module is missing isAncestor or getLowestCommonAncestor()') : void 0;
    }
  },

  _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];
      }
    }

    var possibleRegistrationNames = EventPluginRegistry.possibleRegistrationNames;
    for (var lowerCasedName in possibleRegistrationNames) {
      delete possibleRegistrationNames[lowerCasedName];
    }

    if (process.env.NODE_ENV !== 'production') {
      var possibleRegistrationNames = EventPluginRegistry.possibleRegistrationNames;
      for (var lowerCasedName in possibleRegistrationNames) {
        delete possibleRegistrationNames[lowerCasedName];
      }
    }
  }

  injectComponentTree: function (Injected) {
    ComponentTree = Injected;
    if (process.env.NODE_ENV !== 'production') {
      process.env.NODE_ENV !== 'production' ? warning(Injected && Injected.getNodeFromInstance && Injected.getInstanceFromNode, 'EventPluginUtils.injection.injectComponentTree(...)') : void 0;
    }
  },

  injectTreeTraversal: function (Injected) {
    TreeTraversal = Injected;
    if (process.env.NODE_ENV !== 'production') {
      process.env.NODE_ENV !== 'production' ? warning(Injected && Injected.isAncestor && Injected.getLowestCommonAncestor, 'EventPluginUtils.injection.injectTreeTraversal(...)') : void 0;
    }
  }
};

module.exports = EventPluginRegistry;
event._dispatchListeners;\n  var dispatchInstances = event._dispatchInstances;\n  var listenersIsArr = Array.isArray(dispatchListeners);\n  var listenersLen = listenersIsArr ? dispatchListeners.length : dispatchListeners.length;\n  var instancesIsArr = Array.isArray(dispatchInstances);\n  var instancesLen = instancesIsArr ? dispatchInstances.length : dispatchInstances.length;\n
  if ( listenersIsArr && instancesIsArr && listenersLen === instancesLen ) {\n    var dispatchInstances = event._dispatchInstances;\n    var dispatchListeners = event._dispatchListeners;\n    var listenersIsArr = Array.isArray(dispatchListeners);\n    var listenersLen = listenersIsArr ? dispatchListeners.length : dispatchListeners.length;\n    var instancesIsArr = Array.isArray(dispatchInstances);\n    var instancesLen = instancesIsArr ? dispatchInstances.length : dispatchInstances.length;\n
    // Listeners and Instances are two parallel arrays that are always in sync.\n    executeDispatch(event, simulated, dispatchListeners[i], dispatchInstances[i]);\n    } else if ( dispatchListeners ) {\n      executeDispatch(event, simulated, dispatchListeners, dispatchInstances);\n    } else if ( dispatchInstances ) {\n      executeDispatch(event, simulated, dispatchInstances, dispatchListeners);\n    } else {\n      event._dispatchInstances = null;\n      event._dispatchListeners = null;\n      event.currentTarget = null;\n    }\n  }\n}

/**\n * Dispatch the event to the listener.\n * @param {SyntheticEvent} event\n * @param {boolean} simulated\n * @param {function} listener\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 * Standard/simple iteration through an event's collected dispatches.\n * @return {boolean} True iff number of dispatches accumulated is greater than 0.\n */\nfunction hasDispatches(event) {\n  return event._dispatchListeners;\n}

/**\n * General utilities that are useful in creating custom Event Plugins.\n */\nvar EventPluginUtils = {\n  isEndish: isEndish,\n  isMoveish: isMoveish,\n  isStartish: isStartish,\n  executeDirectDispatch: executeDirectDispatch,\n  executeDispatchesInOrder: executeDispatchesInOrder,\n  executeDispatchesInOrderStopAtTrue: executeDispatchesInOrderStopAtTrue,\n  getInstanceFromNode: function (node) { return ComponentTree.getInstanceFromNode(node); },\n  getDispatchesInOrder: getDispatchesInOrder,\n  getDispatchesInOrderStopAtTrue: getDispatchesInOrderStopAtTrue,\n  getSelectedNodesForParent: getSelectedNodesForParent,\n  getNodeFromInstance: getNodeFromInstance,\n  getEventListenerFromNode: getEventListenerFromNode,\n  getRootID: getRootID,\n  getRootIDs: getRootIDs,\n  getReactRootElementInNode: getReactRootElementInNode,\n  getReactRootIDOfNode: getReactRootIDOfNode,\n  getNodeFromReactRootID: getNodeFromReactRootID,\n  getNodeFromTransaction: getNodeFromTransaction,\n  getNodeFromTransactionOrReactRootID: getNodeFromTransactionOrReactRootID,\n  getNodeFromTransactionOrReactRootIDInNode: getNodeFromTransactionOrReactRootIDInNode,\n  getNodeFromTransactionWithFallback: getNodeFromTransactionWithFallback,\n  getNodeFromTransactionWithFallbackInNode: getNodeFromTransactionWithFallbackInNode,\n  getNodeInReactRootID: getNodeInReactRootID,\n  getNodeInReactRootIDInNode: getNodeInReactRootIDInNode,\n  getNodeInTransaction: getNodeInTransaction,\n  getNodeInTransactionOrReactRootID: getNodeInTransactionOrReactRootID,\n  getNodeInTransactionOrReactRootIDInNode: getNodeInTransactionOrReactRootIDInNode,\n  getNodeInTransactionWithFallback: getNodeInTransactionWithFallback,\n  getNodeInTransactionWithFallbackInNode: getNodeInTransactionWithFallbackInNode,\n  getRootIDFromReactRootID: getRootIDFromReactRootID,\n  getRootIDsFromReactRootIDs: getRootIDsFromReactRootIDs,\n};
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);
  },

gradientFromValue: function (value) {
    return ComponentTree.gradientFromValue(value);
  },

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.
 *
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 * 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 name of the guard to use for logging or debugging
 * @param {Function} func The function to invoke
 * @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.
   * @param {function} name function to pass to rethrowCaughtError
   * @param {Function} func The function to invoke
   * @param {*} a First argument
   * @param {*} b Second argument
   */
  invokeGuardedCallbackWithCatch: invokeGuardedCallback,

  /**
   * During execution of guarded functions we will capture the first error which we will rethrow by handling the top level error handler.
   * @param {function} name function to pass to rethrowCaughtError
   * @param {Function} func The function to invoke
   * @param {*} a First argument
   */
  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;
      fakeNode.addEventListener(evtType, boundFunc, false);
      var evt = document.createEvent('Event');
      evt.initEvent(evtType, false, false);
      fakeNode.dispatchEvent(evt);
      fakeNode.removeEventListener(evtType, boundFunc, false);
    };
  }
}

module.exports = ReactErrorUtils;


//////////////////
// WEBPACK FOOTER
// module.id = 215
// module.chunks = 0

/**
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 *
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 * 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} event
 * @return {DOMEventTarget} Target node.
 */

function getEventTarget(nativeEvent) {
  var target = nativeEvent.target || nativeEvent.srcElement || window;

  // Normalize SVG <use> element events
  if (target.correspondingUseElement) {
    target = target.correspondingUseElement;
  }

  // Safari may fire events on text nodes (Node.TEXT_NODE is 3).
  // @see http://www.quirksmode.org/js/events_properties.html
  return target.nodeType === 3 ? target.parentNode : target;
}

module.exports = getEventTarget;


//////////////////
// WEBPACK FOOTER
// module.id = 216
// module.chunks = 0

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * Document.implementation capabilities.
 * @param {Object} dom
 * @return {Document.implementation} capabilities.
 */

function DocumentImplementation(dom) {
  if (dom.useHasFeature) {
    dom.useHasFeature(document.implementation.hasFeature); // always returns true in newer browsers as per the standard.
  } else {
    throw new Error('useHasFeature is not available in the current environment');
  }
};

module.exports = DocumentImplementation;
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; 
}

module.exports = isEventSupported;

/*
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 *
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

/**
 * Translation from modifier
 * key to the associated property in the event.
 * @see http://www.w3.org/TR/DOM-Level-3-Events/#keys-Modifiers
 */

var modifierKeyToProp = {
  Alt: 'altKey',
  Control: 'ctrlKey',
  Meta: 'metaKey',
  Shift: 'shiftKey'
};

// IE8 does not implement getModifierState so we simply map it to the only
// modifier keys exposed by the event itself, does not support Lock-keys. IE8 currently, all major browsers except Chrome seems to
// support Lock-keys.
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;
}

function getEventModifierState(nativeEvent) {
  return modifierStateGetter;
}

module.exports = getEventModifierState;

/*
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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 DOMLazyTree = require('./DOMLazyTree');
var Danger = require('./Danger');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactInstrumentation = require('./ReactInstrumentation');

var createMicrosoftUnsafeLocalFunction = require('./createMicrosoftUnsafeLocalFunction');
var setInnerHTML = require('./setInnerHTML');
var setTextContent = require('./setTextContent');

function getNodeAfter(parentNode, node) {
  // Special case for text components, which return [open, close] comments
  // from getHostNode.
  if (Array.isArray(node)) {
    node = node[1];
  }
  return node.nextSibling; 
}

/**
 * Inserts `childNode` as a child of `parentNode` at the `index`.
 *
 * @param {DOMElement} parentNode Parent node in which to insert.
 * @param {DOMElement} childNode Child node to insert.
 * @param {number} index Index at which to insert the child.
 * @internal
 */
var insertChildAt = createMicrosoftUnsafeLocalFunction(function (parentNode, childNode, referenceNode) {
  // We rely exclusively
  // on `insertBefore(node, null)` instead of also using
  // `appendChild(node)`. (Using `undefined` is not allowed by
  // all browsers so
  // we are careful to use `null`.)
  parentNode.insertBefore(childNode, referenceNode);
});

function insertLazyTreeChildAt(parentNode, childTree, referenceNode) {
  DOMLazyTree.insertTreeBefore(parentNode, childTree, referenceNode);
}
dom/lib/DOMChildrenOperations.js

```javascript
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
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 * the LICENSE file in the root directory of this source tree.
 */

'use strict';

var DOMNamespaces = {
  html: 'http://www.w3.org/1999/xhtml',
  mathml: 'http://www.w3.org/1998/Math/MathML',
  svg: 'http://www.w3.org/2000/svg'
};

module.exports = DOMNamespaces;

```

```javascript

```
getDeclarationErrorAddendum(owner); /* process.env.NODE_ENV !== 'production' ? warning(false, 'Failed form propType: %s, error message: %s, addendum: %s'); */

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.value);
  } else if (inputProps.onChange) {
    return inputProps.onChange.call(undefined, event);
  }
}

ReactComponentEnvironment = {
  replaceNodeWithMarkup: function (newEnvironment) {
    if (process.env.NODE_ENV !== 'production' ? invariant(!injected, 'ReactCompositeComponent: replaceNodeWithMarkup() can only be called once.') : _prodInvariant('104')) {
      ReactComponentEnvironment.replaceNodeWithMarkup = newEnvironment.replaceNodeWithMarkup;
      ReactComponentEnvironment.processChildrenUpdates = newEnvironment.processChildrenUpdates;
    }
  },

  hasOwnProperty: function (obj) {
    if (obj === undefined || obj === null) {
      return false;
    } else {
      var keys = Object.keys(obj);
      for (var i = 0; i < keys.length; i++) {
        if (is(keys[i], obj[keys[i]])) {
          return true;
        }
      }
      return false;
    }
  }
};

ReactComponentEnvironment = {
  hasOwnProperty: function (obj) {
    if (obj === undefined || obj === null) {
      return false;
    } else {
      var keys = Object.keys(obj);
      for (var i = 0; i < keys.length; i++) {
        if (is(keys[i], obj[keys[i]])) {
          return true;
        }
      }
      return false;
    }
  }

module.exports = shallowEqual;
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
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 }\n return null;\n
}\n\n if (process.env.NODE_ENV !== 'production') {\n process.env.NODE_ENV !== 'production' ?
warning(ReactCurrentOwner.current == null, '%s(...): Cannot update during an existing state transition (such as ' +
\"within `render` or another component's constructor). Render methods \" + 'should be a pure function of props and
state; constructor ' + 'side-effects are an anti-pattern, but can be moved to ' + '`componentWillMount`.', callerName)
: void 0;\n }\n\n return internalInstance;\n}\n\n/**\n * ReactUpdateQueue allows for state updates to be scheduled
into a later\n * reconciliation step.\n */\nvar ReactUpdateQueue = {\n /**\n * Checks whether or not this

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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) { if (process.env.NODE_ENV !== 'production') { var owner = ReactCurrentOwner.current; if (owner !== null) { process.env.NODE_ENV !== 'production' ? warning(owner._warnedAboutRefsInRender, '%s is accessing isMounted inside its render() function. ' + '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; } } } 

isMounted: function (publicInstance) {
    if (process.env.NODE_ENV !== 'production') {
      var owner = ReactCurrentOwner.current;
      if (owner !== null) {
        process.env.NODE_ENV !== 'production' ?
          warning(owner._warnedAboutRefsInRender, '%s is accessing isMounted inside its render() function. ' + '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;
      }
      var internalInstance = ReactInstanceMap.get(publicInstance);
    } // During componentWillMount and render this will be null but after
    // that will always render to something. At least for now. So we can use
    // this hack. return !!internalInstance._renderedComponent;
  } else {
    return false;
  }

  /**
   * Enqueue a callback that will be executed after all the pending updates
   * have processed.
   * @param {ReactClass} publicInstance The instance we use as `this` context.
   * @param {function} callback Called after state is updated.
   * @param {string} callerName Name of the calling function in
   * the public API.
   * @internal
   */
  enqueueCallback: function (publicInstance, callback, callerName) {
    ReactUpdateQueue.validateCallback(callback, callerName);
    var internalInstance = getInternalInstanceReadyForUpdate(publicInstance);

    // Previously we would throw an error if we didn’t have
    // an internal
    // instance. Since we want to make it a no-op instead, we mirror the same
    // behavior we have in
    // other enqueue* methods.
    // We also need to ignore callbacks in componentWillMount. See
    // enqueueUpdates.
    if (!internalInstance) {
      return null;
    }

    if (internalInstance._pendingCallbacks) {
      internalInstance._pendingCallbacks.push(callback);
    } else {
      internalInstance._pendingCallbacks = [callback];
    }
    enqueueUpdate(internalInstance);
  },

  enqueueCallbackInternal: function (internalInstance, callback) {
    if (internalInstance._pendingCallbacks)
    { internalInstance._pendingCallbacks.push(callback);
    } else {
      internalInstance._pendingCallbacks = [callback];
    }
    enqueueUpdate(internalInstance);
  },

  /**
   * Forces an update. This should only be
   * invoked when it is known with
   * certainty that we are **not** in a DOM transaction.
   * @param {ReactClass} publicInstance The instance that should rerender.
   * @param {object} completeState Next state.
   * @internal
   */
  enqueueReplaceState: function (publicInstance, completeState, callback) {
    var internalInstance = getInternalInstanceReadyForUpdate(publicInstance, 'replaceState');

    if (internalInstance) {
      internalInstance._pendingForceUpdate = true;
      enqueueUpdate(internalInstance);
    }

    // Future-proof 15.5
    if (callback !== undefined && callback !== null) {
      ReactUpdateQueue.validateCallback(callback, 'replaceState');
      if (internalInstance._pendingCallbacks)
      { internalInstance._pendingCallbacks.push(callback);
      } else {
        internalInstance._pendingCallbacks = [callback];
      }
      enqueueUpdate(internalInstance);
    }

    // Sets a subset 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.
    * @internal
    * @param {ReactClass} publicInstance The instance we use as `this` context.
    * @param {object} completeState Next state.
    * @internal
    * @param {function} callback Called after state is updated.
    * @param {string} callerName Name of the calling function in
    * the public API.
    * @internal
    */
  enqueueForceUpdate: function (publicInstance) {
    var internalInstance = getInternalInstanceReadyForUpdate(publicInstance, 'forceUpdate');

    if (internalInstance) {
      internalInstance._pendingForceUpdate = true;
      enqueueUpdate(internalInstance);
    }

    // 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} completeState Next state.
    * @internal
    * @param {function} callback Called after state is updated.
    * @param {string} callerName Name of the calling function in
    * the public API.
    * @internal
    */
  enqueueReplaceState: function (publicInstance, completeState, callback) {
    var internalInstance = getInternalInstanceReadyForUpdate(publicInstance, 'replaceState');

    if (internalInstance) {
      internalInstance._pendingReplaceState = true;
      enqueueUpdate(internalInstance);
    }

    // Future-proof 15.5
    if (callback !== undefined && callback !== null) {
      ReactUpdateQueue.validateCallback(callback, 'replaceState');
      if (internalInstance._pendingCallbacks)
      { internalInstance._pendingCallbacks.push(callback);
      } else {
        internalInstance._pendingCallbacks = [callback];
      }
      enqueueUpdate(internalInstance);
    }

    // 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} partialState Next
partial state to be merged with state.

```javascript
if (process.env.NODE_ENV !== 'production') {
  ReactInstrumentation.debugTool.onSetState();
}
```

```javascript
process.env.NODE_ENV !== 'production' ? warning(partialState != null, 'setState(...): You passed an undefined or null state object; ' + 'instead, use forceUpdate().') : void 0;
```

```javascript
var internalInstance = getInternalInstanceReadyForUpdate(publicInstance, 'setState');
```

```javascript
var queue = internalInstance._pendingStateQueue || (internalInstance._pendingStateQueue = []);
```

```javascript
queue.push(partialState);
```

```javascript
enqueueUpdate(internalInstance);
```

```javascript
var queue = internalInstance._pendingStateQueue || (internalInstance._pendingStateQueue = []);
```

```javascript
enqueueUpdate(internalInstance);
```

```javascript
function (callback, callerName) {
  // typeOf callback ??? 'function' ? process.env.NODE_ENV !== 'production' ? invariant(false, '%s(...): Expected the last optional `callback` argument to be a function. Instead received: %s.', callerName, formatUnexpectedArgument(callback)) : _prodInvariant('122', callerName, formatUnexpectedArgument(callback)) : void 0;
```

```javascript
var emptyAncestorInfo = {
  current: null,
  formTag: null,
  aTagInScope: null,
  buttonTagInScope: null,
  nobrTagInScope: null,
  pTagInButtonScope: null,
  listItemTagAutoclosing: null,
  dliTagAutoclosing: null
};
```

```javascript
var updatedAncestorInfo = function (oldInfo, tag, instance) {
  var ancestorInfo = _assign({}, oldInfo || emptyAncestorInfo);
  var info = { tag: tag, instance: instance };
  if (inScopeTags.indexOf(tag) !== -1) {
    ancestorInfo.aTagInScope = null;
    ancestorInfo.buttonTagInScope = null;
    ancestorInfo.nobrTagInScope = null;
    if (buttonScopeTags.indexOf(tag) !== -1) { // See rules for 'li', 'dd', 'dt' start tags
      ancestorInfo.aTagInScope = null;
      ancestorInfo.buttonTagInScope = null;
      ancestorInfo.dliTagAutoclosing = null;
      ancestorInfo.current = info;
      if (tag === 'form') { // ancestorInfo.formTag = info;
        if (tag === 'a')
```
functions by returning a list of its recursive owners, starting at the root and ending with the instance itself. */
  var ancestorInfo.nobrTagInScope;
    }

    return null;
  };

  /**
   * Given a ReactCompositeComponent
   */
  var ancestorInfo.buttonTagInScope = info;
    if (tag === 'button') {

      ancestorInfo.aTagInScope = info;
    } else if (tag === 'a') {

        ancestorInfo.pTagInButtonScope = info;
    }

    if (tag === 'p') {

      ancestorInfo.noBreakTagInScope = info;
    } else if (tag === 'p') {

        ancestorInfo.buttonTagInScope = info;
    }

    if (tag === 'button') {

      ancestorInfo.listItemTagAutoclosing = info;
    }

    if (tag === 'li') {

        ancestorInfo.nobrTagInScope = info;
    }

    if (tag === 'li') {

        ancestorInfo.buttonTagInScope = info;
    }

    if (tag === 'p') {

        ancestorInfo.aTagInScope = info;
    }

    if (tag === 'a') {

    ancestorInfo.pTagInButtonScope;
findOwnerStack = function (instance) { if (!instance) { return [] } var stack = [] while (instance = instance._currentElement._owner) { stack.push(instance) } stack.reverse() return stack };

validateDOMNesting = function (childTag, childText, childInstance, ancestorInfo) { if (childTag) { emptyAncestorInfo = ancestorInfo var parentInfo = ancestorInfo; var parentTag = parentInfo & & parentInfo.tag; var parentAncestorInfo = parentInfo & & parentInfo.tag; var didWarn = false; }

if (childText == null) { process.env.NODE_ENV !== 'production' ? warning(false, 'validateDOMNesting: when childText is passed, childTag should be null') : void 0; }

var invalidParent = isTagValidWithParent(childTag, parentTag) ? null : parentInfo;

var invalidAncestor = invalidParent ? null : findInvalidAncestorForTag(childTag, ancestorInfo);

var problematic = invalidParent || invalidAncestor;

if (problematic) {

var ancestorInfo = problematic.instance;

var ancestorOwner = childInstance & & ancestorInstance._currentElement._owner;

var ancestorOwners = findOwnerStack(ancestorOwner); var minStackLen = Math.min(ancestorOwners.length, childOwners.length); var deepestCommon = -1 for (i = 0; i < minStackLen; i++) {

if (childOwners[i] == == ancestorOwners[i]) { deepestCommon = i; }

else { break; }

}

var UNKNOWN = 'unknown';

var childOwnerNames = childOwners.slice(deepestCommon + 1).map(function (inst) { return inst.getName() || UNKNOWN });

var ancestorOwnerNames = ancestorOwners.slice(deepestCommon + 1).map(function (inst) { return inst.getName() || UNKNOWN });

var problematicTag = problematic.tag; var problematicInstance; var childOwner = childInstance & & ancestorInstance._currentElement._owner;

var childOwners = findOwnerStack(childOwner); var ancestorOwners = findOwnerStack(ancestorOwner);

var ownerInfo = [].concat([!!invalidParent ? true false, validateDOMNesting.isTagValidInContext = function (tag, ancestorInfo) { ancestorInfo = ancestorInfo || emptyAncestorInfo var parentInfo = ancestorInfo; var parentTag = parentInfo & & parentInfo.tag; var parentAncestorInfo = parentInfo & & parentInfo.tag; var didWarn = false; }

if (childText == null) { process.env.NODE_ENV !== 'production' ? warning(false, 'validateDOMNesting: when childText is passed, childTag should be null') : void 0; }

var invalidParent = isTagValidWithParent(childTag, parentTag) ? null : parentInfo;

var invalidAncestor = invalidParent ? null : findInvalidAncestorForTag(childTag, ancestorInfo);

var problematic = invalidParent || invalidAncestor;

if (problematic) {

var ancestorInfo = problematic.instance;

var ancestorOwner = childInstance & & ancestorInstance._currentElement._owner;

var ancestorOwners = findOwnerStack(ancestorOwner);

var childOwners = findOwnerStack(childOwner); var minStackLen = Math.min(ancestorOwners.length, childOwners.length); var deepestCommon = -1 for (i = 0; i < minStackLen; i++) {

if (childOwners[i] == == ancestorOwners[i]) { deepestCommon = i; }

else { break; }

}

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var problematicTag = problematic.tag; var problematicInstance; var childOwner = childInstance & & ancestorInstance._currentElement._owner;

var childOwners = findOwnerStack(childOwner); var ancestorOwners = findOwnerStack(ancestorOwner); var minStackLen = Math.min(ancestorOwners.length, childOwners.length); var deepestCommon = -1 for (i = 0; i < minStackLen; i++) {

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var childOwners = findOwnerStack(childOwner); var ancestorOwners = findOwnerStack(ancestorOwner); var minStackLen = Math.min(ancestorOwners.length, childOwners.length); var deepestCommon = -1 for (i = 0; i < minStackLen; i++) {

if (childOwners[i] == == ancestorOwners[i]) { deepestCommon = i; }

else { break; }

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var childOwners = findOwnerStack(childOwner); var ancestorOwners = findOwnerStack(ancestorOwner); var minStackLen = Math.min(ancestorOwners.length, childOwners.length); var deepestCommon = -1 for (i = 0; i < minStackLen; i++) {

if (childOwners[i] == == ancestorOwners[i]) { deepestCommon = i; }

else { break; }

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var childOwners = findOwnerStack(childOwner); var ancestorOwners = findOwnerStack(ancestorOwner); var minStackLen = Math.min(ancestorOwners.length, childOwners.length); var deepestCommon = -1 for (i = 0; i < minStackLen; i++) {

if (childOwners[i] == == ancestorOwners[i]) { deepestCommon = i; }

else { break; }

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var problematicTag = problematic.tag; var problematicInstance; var childOwner = childInstance & & ancestorInstance._currentElement._owner;

var childOwners = findOwnerStack(childOwner); var ancestorOwners = findOwnerStack(ancestorOwner); var minStackLen = Math.min(ancestorOwners.length, childOwners.length); var deepestCommon = -1 for (i = 0; i < minStackLen; i++) {

if (childOwners[i] == == ancestorOwners[i]) { deepestCommon = i; }

else { break; }

}

var UNKNOWN = 'unknown';

var childOwnerNames = childOwners.slice(deepestCommon + 1).map(function (inst) { return inst.getName() || UNKNOWN });

var ancestorOwnerNames = ancestorOwners.slice(deepestCommon + 1).map(function (inst) { return inst.getName() || UNKNOWN });
// FF does not set `charCode` for the Enter-key, check against `keyCode`
if (charCode == 0 && keyCode == 13) {
    charCode = 13;
} else if (keyCode == 13) {
    charCode = keyCode;
} else if (charCode === 0 || charCode === 32 || charCode === 13) {
    charCode = 0;
} else if (keyCode === 13) {
    charCode = 13;
} else if (charCode >= 32) {
    return charCode;
} else if (charCode > 0) {
    return 0;
} else {
    charCode = keyCode;
}

if (charCode >= 32 || charCode === 13) {
    return charCode;
}

return 0;

module.exports = getEventCharCode;

//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/getEventCharCode.js
// module id = 229
// module exports = getEventCharCode

var baseGetTag = require('./_baseGetTag'),
    getPrototype = require('./_getPrototype'),
    isObjectLike = require('./isObjectLike');

/** `Object#toString` result references. */
var objectTag = '[object Object]';

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') && proto.constructor;
  return typeof Ctor == 'function' && Ctor instanceof Ctor &&
      funcToString.call(Ctor) == objectCtorString;
}

module.exports = isPlainObject;

function _deepClone(obj) {
    switch (typeof obj) {
        case 'object':
            return JSON.parse(JSON.stringify(obj)); // Faster than ES5 clone - http://jsperf.com/deep-cloning-of-objects/5
        case 'undefined':
            return null; // this is how JSON.stringify behaves for array items
        default:
            return obj; // no need to clone primitives
    }
}

function isInteger(str) {
    var i = 0;
    var len = str.length;
    return /^\d+$/.test(str)

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```javascript
var parseUrl = require('url-parse');
var win = require('core/window');
var btoa = require('core-js/library/modules/_array-methods.js');

module.exports = function (TYPE, $create) {
  var IS_MAP = TYPE == 0;
  var IS_FILTER = TYPE == 2;
  var IS_SOME = TYPE == 3;
  var IS_EVERY = TYPE == 4;
  var
```

---

The text appears to be a mix of JavaScript code and English comments without any identifiable context or complete sentences. It seems to be extracted from a JavaScript file, potentially dealing with array methods, error handling, and object manipulation. However, without more context, it's challenging to provide a coherent representation of the document.
"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"
export const VALIDATE = "validate"
export const CONFIGURE_AUTH = "configure_auth"
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 function preAuthorizeImplicit(payload) {
  let { auth, token, isValid } = payload
  let { schema, name } = auth
  let flow = schema.get("flow")

  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 ( authActions ) {
    authActions.authorizeOauth2({ auth, token })
  }
}

export function authorizeOauth2(payload) {
  return {
    type: AUTHORIZE_OAUTH2,
    payload: payload
  }
}

export function authorizePassword(auth) {
  let { schema, name, username, password, passwordType, clientId, clientSecret } = auth
  let form = {
    grant_type: "password",
    scope: auth.scopes.join(scopeSeparator),
    username, password
  }
  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 function authorizeApplication(auth) {
  let { schema, scopes, name, clientId, clientSecret } = auth
  let headers = {
    Authorization: "Basic " + btoa(clientId + ":" + clientSecret)
  }

  return authActions.authorizeRequest({ body: buildFormData(form), url: schema.get("tokenUrl"), name, headers, query, auth })
}

export function authorizeAccessCodeWithFormParams({ auth, redirectUrl }) {
  let { schema, name, clientId, clientSecret } = auth
  let form = {
    grant_type: "authorization_code",
    code: auth.code,
    client_id: clientId,
    client_secret: clientSecret,
    redirect_uri: redirectUrl
  }

  return authActions.authorizeRequest({ body: buildFormData(form), url: schema.get("tokenUrl"), name, headers, query, auth })
}

export function authorizeAccessCodeWithBasicAuthentication({ auth, redirectUrl }) {
  let { schema, name, clientId, clientSecret } = auth
  let headers = {
    Authorization: "Basic " + btoa(clientId + ":" + clientSecret)
  }

  return authActions.authorizeRequest({ body: buildFormData(form), url: schema.get("tokenUrl"), name, headers, query, auth })
}
\"oas3_set_response_content_type\"\nexport const UPDATE_SERVER_VARIABLE_VALUE =
\"oas3_set_server_variable_value\"\n\nexport function setSelectedServer (selectedServerUrl, namespace) {\n return
{\n type: UPDATE_SELECTED_SERVER,\n payload: {selectedServerUrl, namespace}\n }\n}\n\nexport
function setRequestBodyValue ({ value, pathMethod }) {\n return {\n type:
UPDATE_REQUEST_BODY_VALUE,\n payload: { value, pathMethod }\n }\n}\n\nexport function
setActiveExamplesMember ({ name, pathMethod, contextType, contextName }) {\n return {\n type:
UPDATE_ACTIVE_EXAMPLES_MEMBER,\n payload: { name, pathMethod, contextType, contextName }\n
}\n}\n\nexport function setRequestContentType ({ value, pathMethod }) {\n return {\n type:
UPDATE_REQUEST_CONTENT_TYPE,\n payload: { value, pathMethod }\n }\n}\n\nexport function
setResponseContentType ({ value, path, method }) {\n return {\n type:
UPDATE_RESPONSE_CONTENT_TYPE,\n payload: { value, path, method }\n }\n}\n\nexport function
setServerVariableValue ({ server, namespace, key, val }) {\n return {\n type:
UPDATE_SERVER_VARIABLE_VALUE,\n payload: { server, namespace, key, val }\n }\n}\n\n\n\n//
WEBPACK FOOTER //\n// ./src/core/plugins/oas3/actions.js","module.exports = function (done, value) {\n return {
value: value, done: !!done };\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/corejs/library/modules/_iter-step.js\n// module id = 240\n// module chunks = 0","module.exports =
!require('./_descriptors') && !require('./_fails')(function () {\n return Object.defineProperty(require('./_domcreate')('div'), 'a', { get: function () { return 7; } }).a != 7;\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/library/modules/_ie8-dom-define.js\n// module id = 241\n// module chunks = 0","var has =
require('./_has');\nvar toIObject = require('./_to-iobject');\nvar arrayIndexOf = require('./_arrayincludes')(false);\nvar IE_PROTO = require('./_shared-key')('IE_PROTO');\n\nmodule.exports = function (object,
names) {\n var O = toIObject(object);\n var i = 0;\n var result = [];\n var key;\n for (key in O) if (key !=
IE_PROTO) has(O, key) && result.push(key);\n // Don't enum bug & hidden keys\n while (names.length > i) if
(has(O, key = names[i++])) {\n ~arrayIndexOf(result, key) || result.push(key);\n }\n return
result;\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/library/modules/_object-keysinternal.js\n// module id = 242\n// module chunks = 0","var document =
require('./_global').document;\nmodule.exports = document &&
document.documentElement;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/corejs/library/modules/_html.js\n// module id = 243\n// module chunks = 0","// 19.1.2.9 / 15.2.3.2
Object.getPrototypeOf(O)\nvar has = require('./_has');\nvar toObject = require('./_to-object');\nvar IE_PROTO =
require('./_shared-key')('IE_PROTO');\nvar ObjectProto = Object.prototype;\n\nmodule.exports =
Object.getPrototypeOf || function (O) {\n O = toObject(O);\n if (has(O, IE_PROTO)) return O[IE_PROTO];\n if
(typeof O.constructor == 'function' && O instanceof O.constructor) {\n return O.constructor.prototype;\n } return
O instanceof Object ? ObjectProto : null;\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/library/modules/_object-gpo.js\n// module id = 244\n// module chunks = 0","var global =
require('./_global');\nvar SHARED = '__core-js_shared__';\nvar store = global[SHARED] || (global[SHARED] =
{});\nmodule.exports = function (key) {\n return store[key] || (store[key] = {});\n};\n\n\n\n//////////////////\n//
WEBPACK FOOTER\n// ./node_modules/core-js/modules/_shared.js\n// module id = 245\n// module chunks =
0","module.exports = function (bitmap, value) {\n return {\n enumerable: !(bitmap & 1),\n configurable:
!(bitmap & 2),\n writable: !(bitmap & 4),\n value: value\n };\n};\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/core-js/modules/_property-desc.js\n// module id = 246\n// module chunks = 0","'use
strict';\nvar $at = require('./_string-at')(true);\n\n// 21.1.3.27 String.prototype[@@iterator]()\nrequire('./_iterdefine')(String, 'String', function (iterated) {\n this._t = String(iterated); // target\n this._i = 0;
// next
index\n// 21.1.5.2.1 %StringIteratorPrototype%.next()\n}, function () {\n var O = this._t;\n var index = this._i;\n
var point;\n if (index >= O.length) return { value: undefined, done: true };\n point = $at(O, index);\n this._i +=
point.length;\n return { value: point, done: false };\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/modules/es6.string.iterator.js\n// module id = 247\n// module chunks = 0","var toInteger =
require('./_to-integer');\nvar defined = require('./_defined');\n// true -> String#at\n// false ->

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String#codePointAt

```
module.exports = function (TO_STRING) {
  var s = String(defined(that));
  var i = toInteger(pos);
  var l = s.length;
  var a, b,\n  \n  if (i < 0 || i >= l) return TO_STRING ? " : undefined;\n  a = s.charAt(i);\n  return a < 0xd800 || a > 0xdbff || i + 1 === l \n  \n  \n  \n  b = s.charAt(i + 1) < 0xdc00 \n  b > 0xdfff ? TO_STRING ? s.charAt(i) : \n  \n  TO_STRING ? s.slice(i, i + 2) : \n  \n  (a - 0xd800) < 10 \n  + (b - 0xdc00) + 0x10000;\n};
```

```
typeof partialState === 'function' || partialState == null) ? 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; in this.updater.enqueueSetState(this, partialState); if (callback) {
    this.updater.enqueueCallback(this, callback, 'setState');
  }
  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.
 * This will not invoke `shouldComponentUpdate`, but it will invoke `componentWillUpdate` and `componentDidUpdate`.
 * @param {*} partialState @param ?function callback
 * @final
 * @protected
 */
ReactComponent.prototype.forceUpdate = function (callback) {
    this.updater.enqueueForceUpdate(this);
    if (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
 * modern base class. Instead, we define a getter that warns if it's accessed.
 */
if (process.env.NODE_ENV !== 'production') {
    var deprecatedAPIs = {
        isMounted: ['isMounted', 'Instead, make sure to clean up subscriptions and pending requests in ' + 'componentWillUnmount to prevent memory leaks.'],
        replaceState: ['replaceState', 'Refactor your code to use setState instead (see ' + 'https://github.com/facebook/react/issues/3236).']
    };
    var defineDeprecationWarning = function (methodName, info) {
        if (canDefineProperty) {
            Object.defineProperty(ReactComponent.prototype, methodName, {
                get: function () {
                    lowPriorityWarning(false, '%s(...) is deprecated in plain JavaScript React classes. %s', info[0], info[1]);
                    return undefined;
                }
            });
        }
    };
    for (var fnName in deprecatedAPIs) {
        if (deprecatedAPIs.hasOwnProperty(fnName)) {
            defineDeprecationWarning(fnName, deprecatedAPIs[fnName]);
        }
    }
}

/**
 * Base class helpers for the updating state of a component.
 */
function ReactPureComponent(props, context, updater) {
    // Duplicated from ReactComponent.
    this.props = props;
    this.context = context;
    this.refs = emptyObject;
    // We initialize the default updater but the real one
    // gets injected by the renderer.
    this.updater = updater || ReactNoopUpdateQueue;
}

function ComponentDummy() {}
ComponentDummy.prototype = ReactComponent.prototype;
ReactPureComponent.prototype = new ComponentDummy();
ReactPureComponent.prototype.constructor = ReactPureComponent;

// Avoid an extra prototype jump for these methods.
_assign(ReactPureComponent.prototype,
    (ReactComponent.prototype, methodName, 
        get: function () {
            return undefined;
        }
    });

module.exports = {
    Component: ReactComponent,
    PureComponent: ReactPureComponent
};
not invoke `shouldComponentUpdate`, but it will invoke
`componentWillUpdate` and
`componentDidUpdate`. A *param* {ReactClass} publicInstance The instance that should rerender.

@internal

`enqueueForceUpdate`: function (publicInstance) {
  warnNoop(publicInstance, 'forceUpdate');
}

@internal

`enqueueReplaceState`: function (publicInstance, completeState) {
  warnNoop(publicInstance, 'replaceState');
}

@internal

`enqueueSetState`: function (publicInstance, partialState) {
  warnNoop(publicInstance, 'setState');
}

module.exports = ReactNoopUpdateQueue;

/*
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 *
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 * LICENSE file in the root directory of this source tree. An additional grant
 * of patent rights can be found in the PATENTS file in the same directory.
 */

'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;

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 *
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 * LICENSE file in the root directory of this source tree.
 */

'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
PropTypes checks here.

var factory = require('./factoryWithTypeCheckers');
module.exports = function(isValidElement) {
  // It is still allowed in
  15.5.
  var throwOnDirectAccess = false;
  return factory(isValidElement, throwOnDirectAccess);
};

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 * LICENSE file in the root directory of this source tree. An additional grant
 * of patent rights can be found in the PATENTS file in the same directory.
 */

'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
PropTypes checks here.

var ActionTypes = {
  INIT: '@@redux/INIT'
}

/*
 * Creates a Redux store that holds the state
 * tree. The only way to change the state in the store is to call `dispatch()` on it.
 */

var ReactPropTypesSecret = 'SECRET_DO NOT_PASS_THIS_OR_YOU_WILL_BE FIRED';

module.exports = ReactPropTypesSecret;
several reducers

* into a single reducer function by using `combineReducers`

```
* @param {Function} reducer A function that returns the next state tree, given
* the current state tree and the action to handle.
* @param {any} [preloadedState] The initial state. You may optionally specify it
* to hydrate the state from the server in universal apps, or to restore
* previously serialized user session.
* If you use `combineReducers` to produce the root reducer function, this must be
* an object with the same shape as ‘combineReducers’ keys.
* @param {Function} [enhancer] The store enhancer. You may optionally specify it
* to enhance the store with third-party capabilities such as middleware.
* time travel, persistence, etc. The only store enhancer that ships with Redux
* is `applyMiddleware()`.
```

To use the store as plain object actions, dispatch

```
action = {type: 'example', payload: 'string'};
store.dispatch(action);
```
(isDispatching) { 
  try {
    isDispatching = true;
    currentRoot = currentRoot.reduce(currentState, action);
  } finally {
    isDispatching = false;
  } 
}

var listeners = currentListeners = nextListeners;
for (var i = 0; i < listeners.length; i++) {
  var listener = listeners[i];
  listener();
}

* steak: * replaces the reducer currently used by the
store to calculate the state.

* You might need this if your app implements code splitting and you want to
load some of the reducers dynamically. You might also need this if you
* implement a hot reloading

* mechanism for Redux.

* @param {Object} observer Any object that can be used as an observer.
* The observer object should have a
`next` method.

* @returns {subscription} An object with an ‘unsubscribe’ method that can
* be used to unsubscribe the observable from the store, and prevent further
* emission of values from the observable.

* subscribe: function subscribe(observer) {
  if (typeof observer !== 'object') {
    throw new
    TypeError('Expected the observer to be an object.');
  }

  function observeState() {
    if (observer.next) {
      observer.next(getState());
    }
  }

  observeState();
  var unsubscribe
  = outerSubscribe(observerState);
  return { unsubscribe: unsubscribe }; 
}

* @param {Object} nextReducer The reducer for the store to use instead.
* @returns {void}
* function replaceReducer(nextReducer) {
*   if (typeof nextReducer !== 'function') {
*     throw new
*     Error('Expected the nextReducer to be a function.');
*   }

* currentRoot = nextReducer;
* dispatch({ type: ActionTypes.INIT });
* return _ref2 = {
*   dispatch: dispatch,
*   subscribe: subscribe,
*   getState: getState,
*   replaceReducer: replaceReducer
* }; 

compose() {
  for (var _len = arguments.length, funcs = Array(_len), _key = 0; _key < _len; _key++) {
    funcs[_key] = arguments[_key];
  }
  if (funcs.length === 0) {
    return function (arg) {
      return arg;
    };
  }
  if (funcs.length === 1) {
    return funcs[0];
  }
  return funcs.reduce(function (a, b) {
    return function () {
      return a(b.apply(undefined, arguments));
    };
  });
}


function upperFirst(string) {
  return string.charAt(0).toUpperCase() + string.slice(1);
}


function baseSlice(array, start, end) {
  var index = -1,
      length = array.length;
  if (start < 0) {
    start = -start > length ? 0 : (length + 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;
}
detect strings with zero-width joiners or code points from the astral planes.\[36x36\]Open Source Used In MSX SD-WAN Service Pack 4.0.0 20353

```javascript
var reHasUnicode = RegExp(\[
  \{ + rsZWJ + rsAstralRange + rsComboRange + rsVarRange + \}\] + *\n); // A specialized version of `_.reduce` for arrays without support for
// array iteratee shorthands.\n\n\n\n```
Function.prototype.toString = functionToString;

/** Used to resolve the decompiled source of functions. */
var funcToString = Function.prototype.toString;

/** Used to provide the `source` of `func`. */
funcToString = funcToString && funcToString.call(function);

/**
 * Converts `func` to its source code.
 *
 * @private
 * @param {Function} func
 * @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 '';
      }
    }
  }
  return '';
}

module.exports = toSource;


function createFind
    require('./_createFind'),
    findIndex = require('./findIndex');

/**
 * Iterates over elements of `collection`,
 * return the first element `predicate` returns truthy for. The predicate is invoked with three arguments:
 * (value, index|key, collection).
 *
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Collection
 *
 * @param {Array|Object} collection The collection to inspect.
 * @param {Function} [predicate=_.identity]
 * @param {number} [fromIndex=0]
 * @returns {mixed}
 * @example
 *
 * var users = [
 *   { 'user': 'barney',  'age': 36, 'active': true },
 *   { 'user': 'fred',    'age': 40, 'active': false },
 *   { 'user': 'pebbles', 'age': 1,  'active': true }
 * ];
 *
 * _.find(users, function(o) { return o.age < 40; });
 * // => object for 'barney'
 *
 * // The `_.matches` iteratee shorthand.
 * _.find(users, { 'user': 'pebbles' });
 * // => object for 'pebbles'
 *
 * // The `_.matchesProperty` iteratee shorthand.
 * _.find(users, { _matchesProperty: (user) => user.age < 40 });
 * // => object for 'pebbles'
 *
 * // The `_.property` iteratee shorthand.
 * _.find(users, 'age');
 * // => object for 'fred'
 */
var find = createFind(findIndex);

module.exports = find;


function baseIsEqualDeep
    require('./_baseIsEqualDeep'),
    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 {number} [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 baseIsEqualDeep(value, other, bitmask, customizer, stack) {
  // Assume cyclic values are equal.
  var isObjectLike = require('./isObjectLike');
  var isObjectLike = isObjectLike && isObjectLike(other);
  var valueReturn = valueReturn && valueReturn && other;
  var isEqual = isObjectLike && isEqualDeep;

  // Ignore non-index properties.
  while (++index < arrLength) {
    var arrayValue = array[index],
        otherValue = other[index];

    if (customizer) {
      var compared = isPartial
        ? customizer(othValue, arrayValue, index, other, array, stack)
        : customizer(arrayValue, otherValue, index, other, array, stack);
    }
    if (compared !== undefined) {
      if (compared) {
        continue;
      }
      result = false;
      break;
    }
  }
  return result;
}

module.exports = baseIsEqualDeep;


function arraySome
    require('./_arraySome'), cacheHas = require('./_cacheHas');

/**
 * A specialized version
 * of `_.some` for arrays with support for partial deep comparisons.
 *
 * @private
 * @param {Array} array The array to inspect.
 * @param {Function} [predicate=_.identity]
 * @param {number} [fromIndex=0]
 * @returns {boolean} Returns `true` if the array is any
 * that passes the `predicate`, else `false`.
 */
function arraySome(array, predicate, fromIndex) {
  // Determine the length of the array.
  var length = array ? array.length : 0;
  // Initialize values.
  var index = (fromIndex || 0) < 0 ? 0 : baseBound(fromIndex, length);
  var seen = (value && COMPARE_PARTIAL_FLAG)
    ? new SetCache(array)
    : undefined;

  // Ignore index properties.
  while (++index < length) {
    var arrayValue = array[index];
    var seenValue = seen && seen.has(arrayValue);

    if (customizer) {
      var compared = isPartial
        ? customizer(othValue, arrayValue, index, other, array, stack)
        : customizer(arrayValue, otherValue, index, other, array, stack);
    }
    if (compared !== undefined) {
      if (compared) {
        continue;
      }
      result = false;
      break;
    }
  }
  return result;
}

module.exports = arraySome;


var value = undefined;
var stack = (value && COMPARE_UNORDERED_FLAG)
  ? new SetCache
  : undefined;

// Ignore non-index properties.
while (++index < arrLength) {
  var arrayValue = array[index];
  var seenValue = seen && seen.has(arrayValue);

  if (customizer) {
    var compared = isPartial
      ? customizer(othValue, arrayValue, index, other, array, stack)
      : customizer(arrayValue, otherValue, index, other, array, stack);
  }
  if (compared !== undefined) {
    if (compared) {
      continue;
    }
    result = false;
    break;
  }
}

// Recursively compare arrays (susceptible to call stack limits).
if (seen) {
  if (!arraySome(}
Built-in method references without a dependency on `root`. *\n
var `freeParseInt` = parseInt; `\n
/** Used to detect octal string values. */
var reIsOctal = /^0o[0-7]+$/i;

/**
 * Converts `value` to a number.
 * @static
 * @memberOf 
 * @param {*} `value` The value to process. `\n
 * @returns {number} Returns the number.
 */
var returnNaN = function ( `value` ) {
  if ( `isObject` ( `value` ) ) {
    `var other = typeOf` ( `value` ) .
    `value.valueOf` ( `value` ).
    `return NaN;` // Return `NaN` for non-numeric values.
  }

  return +`value`;
}

module.exports = returnNaN;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/toNumber.js
// module id = 305
// module chunks = 0
require('inherits');

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.
  if (typeof emitter.prependListener === 'function') return emitter.prependListener(event, fn);

  // This is a hack to make sure that our error handler is attached before any
  // userland objects. NEVER DO THIS. This is here only because this
  // code needs
  // to continue to work with older versions of Node.js that do not include
  // the prependListener()
  // method. The goal is to eventually remove this hack.
  if (kProxyEvents || kProxyEvents[event]) emit \[event\] \n  // 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;

  // make all the buffer merging and length checks go away
  // this.objectMode = !!options.objectMode;
  // cast to ints.
  this.highWaterMark = Math.floor(this.highWaterMark);

  // 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()
  this.buffer = new BufferList();

  // legacy
  this.readable = 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
    // has not been initialized yet
    if (!this._readableState) {
      return;
    }

    // backward compatibility, the user is explicitly
    // managing
    this._readableState.destroyed = value;
  }
});

Readable.prototype.destroy = destroyImpl.destroy;
Readable.prototype._undestroy = destroyImpl.undestroy;
Readable.prototype._destroy = destroyImpl._destroy;
function (err, cb) {
  this.push(null); cb(err); return;}

// Manually shove something into the read() buffer.
// This returns true if the highWaterMark has not been hit yet, or
// similar to how Writable.write() returns true if you
// should write() some more.
Readable.prototype.push = function (chunk, encoding) {
  var state = this._readableState;
  var skipChunkCheck = false;
  if (state.objectMode)
    if (typeof chunk == 'string')
      encoding = encoding || state.defaultEncoding;
    else
      if (encoding != state.encoding)
        chunk = Buffer.from(chunk, encoding);
  if (skipChunkCheck)
    encoding = '';

  return readableAddChunk(this, chunk, encoding, false, skipChunkCheck);
}

// Unshift should *always* be something directly out of
// readable.prototype.unshift = function (chunk) {
  return readableAddChunk(this, chunk, null, true, false);
} else if (state.ended) {
  return stream.emit('error', new Error('stream.unshift() after end event'));
}

Readable.prototype.isPaused = function () {
  return this._readableState.flowing === false;
}

// You can override either this method, or the async _read(n)
// below.
Readable.prototype.read = function (n) {
  debug('read', n);
  n = parseInt(n, 10);
  var state = this._readableState;
  var err = null;

  if (n !== 0) state.emittedReadable = false;

  // if we're doing read(0) to...
state.flowing = false;
    for (var i = 0; i < len; i++) {
      dests[i].emit('unpipe', this, unpipeInfo);
    }
    return

var dests = state.pipes;
    var len = state.pipesCount;
    state.pipes = null;
    state.pipesCount = 0;

unpipeInfo);
    return this;

  // slow case. multiple pipe destinations.

  if (!dest) {
    // remove all.
    state.pipes = null;
    state.pipesCount = 0;
    state.flowing = false;
    if (dest) dest.emit('unpipe', this,

    // got a

    if (!dest) dest = state.pipes;

    // just one destination.  most common case.
  if (state.pipesCount === 1) {
    // passed in one, but it's not
    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.awaitDrain);
        src._readableState.awaitDrain++;
        increasedAwaitDrain = true;

      }
    }
  }

  function onend() {
    debug('onend');
    increasedAwaitDrain = false;
    var ret = dest.write(chunk);

if (false === ret && & !increasedAwaitDrain) {
    // 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);

  var cleanedUp = false;
  function cleanup() {
  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.
    if (state.awaitDrain && !(dest._writableState || dest._writableState.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.
    // => Check whether `dest` is
    // still a piping destination.
    if ((state.pipesCount === 1 && & state.pipes === dest || state.pipesCount > 1 &&
indexOf(state.pipes, dest) !== -1) && & !cleanedUp) {
      // false write response, pause,

src._readableState.awaitDrain++;
    increasedAwaitDrain = true;

    // 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.
    // => Check whether `dest` is
    // still a piping destination.
    if ((state.pipesCount === 1 && & state.pipes === dest || state.pipesCount > 1 &&
indexOf(state.pipes, dest) !== -1) && & !cleanedUp) {
      // false write response, pause,

src._readableState.awaitDrain++;
    increasedAwaitDrain = true;

    // 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.
    // => Check whether `dest` is
    // still a piping destination.
    if ((state.pipesCount === 1 && & state.pipes === dest || state.pipesCount > 1 &&
indexOf(state.pipes, dest) !== -1) && & !cleanedUp) {
      // false write response, pause,

src._readableState.awaitDrain++;
    increasedAwaitDrain = true;

    // 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.
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    // still a piping destination.
    if ((state.pipesCount === 1 && & state.pipes === dest || state.pipesCount > 1 &&
indexOf(state.pipes, dest) !== -1) && & !cleanedUp) {
      // false write response, pause,

src._readableState.awaitDrain++;
    increasedAwaitDrain = true;

    // 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.
    // => Check whether `dest` is
    // still a piping destination.
    if ((state.pipesCount === 1 && & state.pipes === dest || state.pipesCount > 1 &&
indexOf(state.pipes, dest) !== -1) && & !cleanedUp) {
      // false write response, pause,

src._readableState.awaitDrain++;
    increasedAwaitDrain = true;

    // 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.
    // => Check whether `dest` is
    // still a piping destination.
    if ((state.pipesCount === 1 && & state.pipes === dest || state.pipesCount > 1 &&
indexOf(state.pipes, dest) !== -1) && & !cleanedUp) {
      // false write response, pause,

src._readableState.awaitDrain++;
    increasedAwaitDrain = true;

    // 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.
    // => Check whether `dest` is
    // still a piping destination.
    if ((state.pipesCount === 1 && & state.pipes === dest || state.pipesCount > 1 &&
indexOf(state.pipes, dest) !== -1) && & !cleanedUp) {
      // false write response, pause,

src._readableState.awaitDrain++;
    increasedAwaitDrain = true;

    // 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.
    // => Check whether `dest` is
    // still a piping destination.
    if ((state.pipesCount === 1 && & state.pipes === dest || state.pipesCount > 1 &&
indexOf(state.pipes, dest) !== -1) && & !cleanedUp) {
      // false write response, pause,
list.head.data.length) \n   // slice is the same for buffers and strings\n   ret = list.head.data.slice(0, n);\n\nelse if (n === list.head.data.length) \n   // first chunk is a perfect match\n   ret = list.shift();\n} else {\n   // result spans more than one buffer\n   ret = hasStrings ?
   copyFromBufferString(n, list) : copyFromBuffer(n, list);\n\n   // break\n   }\n   ++c;\n}\n}\n\nfunction copyFromBufferString(n, list) {
  var p = list.head;
  var c = 1;\n  var ret = p.data;\n  var nb = n > buf.length ? buf.length : n;\n  var buflen = buf.copy(ret, ret.length - n, 0, nb);\n\n  while (p = p.next) {
    var str = p.data;\n    var nb = n > str.length ? str.length : n;\n    if (nb === str.length) ret += str;else ret += str.slice(0, n);\n    n -= nb;\n  }\n  list.length -= c;\n\n  return ret;
}

function copyFromBuffer(n, list) {
  var ret = Buffer.allocUnsafe(n);
  var p = list.head;
  var c = 1;\n  p.data.copy(ret);\n  n -= p.data.length;\n  while (p = p.next) {
    var buf = p.data;\n    var nb = n > buf.length ? buf.length : n;\n    buf.copy(ret, ret.length - n, 0, nb);\n\n    while (p = p.next) {
      var buf = p.data;\n      var nb = n > buf.length ? buf.length : n;\n      buf.copy(ret, ret.length - n, 0, nb);\n      n -= nb;\n    }\n  }\n  list.length -= c;\n\n  return ret;
}

function endReadable(stream) {
  var state = stream._readableState;

  // If we get here before consuming all the bytes, then that is an // bug in node. Should never happen.\n  if (state.length > 0) throw new Error("endReadable() called on non-empty stream");\n
  if (!state.endEmitted) {
    state.ended = true;
    pna.nextTick(endReadableNT, state, stream);
  }
}

function endReadableNT(state, stream) {
  // Check that we didn't get one last unshift.\n  if (!state.endEmitted && state.length === 0) {
    state.endEmitted = true;
    stream.readable = false;
    stream.emit('end');\n  }
  }

function indexOf(xs, x) {
  for (var i = 0, l = xs.length; i < l; i++) {
    if (xs[i] === x) return i;
  }
  return -1;
}

var pna = require('process-nextick-args');

// undocumented cb() API, needed for core, not for public API\nfunction destroy(err, cb) {
  var _this = this;

  var readableDestroyed = this._readableState && this._readableState.destroyed;
  var writableDestroyed = this._writableState && this._writableState.destroyed;

  if (readableDestroyed || writableDestroyed) {
    if (cb) {
      cb(err);
    } else if (err && (!this._writableState || !this._writableState.errorEmitted)) {
      pna.nextTick(emitErrorNT, this, err);
    }
    return this;
  }

  // set destroyed to true before firing error callbacks in order
  // to make it re-entrance safe in case destroy() is called within callbacks\n  if (this._readableState) {
    this._readableState.destroyed = true;\n    this._readableState.ended = false;
    this._readableState.errorEmitted = true;\n  }\n  else if (cb) {\n    cb(err);\n  }
}

function emitErrorNT(self, err) {
  self.emit('error', err);
}

module.exports = {
  destroy: destroy,
  undestroy: undestroy
};
% 3\n 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 =
}.

function simpleWrite(buf) {
  return buf.toString(this.encoding);
}

function simpleEnd(buf) {
  return buf &&
}

/**
 // WEBPACK FOOTER
 // module id = 312
 // 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\n // without limitation the rights to use, copy, modify, merge, publish,\n // 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\n // following conditions:\n // THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n // OR IMPLIED, INCLUDING
 // but NOT LIMITED TO THE WARRANTIES OF\n // MERCHANTABILITY, FITNESS FOR A PARTICULAR
 // PURPOSE AND NONINFRINGEMENT. IN\n // 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\n // OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
 // WITH THE SOFTWARE OR THE\n // USE OR OTHER DEALINGS IN THE SOFTWARE.

 // a transform
 // stream is a readable/writable stream where you do
 // something with the data. Sometimes it's called a \"filter\",\n // but that's not a great name for it, since that implies a thing where\n // some bits pass through, and others are simply ignored. (That would\n // be a valid example of a transform, of course.)\n // While the output is causally related to
 // the input, it's not\n // necessarily symmetric or synchronous transformation. For example,\n // a zlib stream might
 // take multiple plain-text writes(), and then\n // emit a single compressed chunk some time in the future.\n // Here's
 // how this works:\n // The Transform stream has all the aspects of the readable and writable\n // stream classes.
 // When you write(chunk), that calls _write(chunk,cb)\n // internally, and returns false if there's a lot of pending
 // writes\n // buffered up. When you call read(), that calls _read(n) until\n // there's enough pending readable data
 // buffered up.\n // In a transform stream, the written data is placed in a buffer. When\n // _read(n) is called, it
 // transforms the queued up data, calling the\n // buffered _write cb's as it consumes chunks. If consuming a single\n // written chunk would result in multiple output chunks, then the first\n // outputted bit calls the readcb, and subsequent
 // chunks just go into\n // the read buffer, and will cause it to emit \"readable\" if necessary.\n // This way, back-
 // pressure is actually determined by the reading side,\n // since _read has to be called to start processing a new chunk.
 // However,\n // a pathological inflate type of transform can cause excessive buffering\n // here. For example, imagine a stream where every byte of input is\n // interpreted as an integer from 0-255, and then results in that many\n // bytes of output. Writing the 4 bytes {ff,ff,ff,ff} would result in\n // 1kb of data being output. In this case, you could write a
 // very small\n // amount of input, and end up with a very large amount of output. In\n // such a pathological inflating
 // mechanism, there'd be no way to tell\n // the system to stop doing the transform. A single 4MB write could\n // cause the system to run out of memory.\n // However, even in such a pathological case, only a single written chunk\n // would be consumed, and then the rest would wait (un-transformed) until\n // the results of the previous transformed
 // chunk were consumed.\n //\n //use strict;\n //module.exports = Transform =

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error = fromJS(payload)

error = error.set("type", "spec")

return state
.update("errors", errors =>
  transformErrors(errors, system.getSystem())
)

[NEW_SPEC_ERR_BATCH]: (state, { payload }) => {

  let error = fromJS(payload)

  error = error.set("type", "spec")

  return state
.update("errors", errors =>
  transformErrors(errors, system.getSystem())
)

  [CLEAR]: (state, { payload }) => {

    let error = fromJS(Object.assign(DEFAULT_ERROR_STRUCTURE, err, {
      type: "spec" })

    return state
.update("errors", errors =>
  transformErrors(errors, system.getSystem())
)

    [CLEAR_BY]: (state, { payload }) => {

      if(promise)
        payload = payload.map(err => {
          return fromJS(Object.assign(DEFAULT_ERROR_STRUCTURE, err, {
            type: "spec" })
        })

        return state
.update("errors", errors =>
  transformErrors(errors, system.getSystem())
)

    [NEW_AUTH_ERR]: (state, { payload }) => {

      let error = fromJS(Object.assign({}, payload))

      error = error.set("type", "auth")

      return state
.update("errors", errors =>
  transformErrors(errors, system.getSystem())
)

    [CLEAR]: (state, { payload }) => {

      if(!payload || !state.get("errors")) {
        return state
      }

      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.merge({
        errors: newErrors
      })

    [CLEAR_BY]: (state, { payload }) => {

      if(!payload || typeof payload !== "function") {
        return state
      }

      let newErrors = state.get("errors")
        .filter(err => {
          return payload(err)
        })

      return state.merge({
        errors: newErrors
      })

    }

    transformErrors = (errors, system) => {

      let inputs = {
        jsSpec: system.specSelectors.specJson().toJS()
      }

      let transformedErrors = reduce(errorTransformers, (result, transformer) => {

        try {
          let newlyTransformedErrors = transformer.transform(result, inputs)
          return newlyTransformedErrors.filter(err => !!err) // filter removed errors
        } catch(e) {
          console.error("Transformer error:", e)
          return result
        }
      }, errors)

      return transformedErrors
        .filter(err => !!err) // filter removed errors
        .map(err => {
          if(!err.get("line") && err.get("path")) {
            // TODO: re-resolve line number if we've transformed it away
          }
          return err
        })

    transform = (errors) => {

      let seekStr = "is not of a type(s)"
      let i = errors
        .map(err => {
          let message = err.get("message")
          let isParameterOneOfError = message.indexOf(seekStr) > -1

          if(isParameterOneOfError) {
            // try to find what's wrong
            return createTailoredParameterError(err, jsSpec)
          } else {
            return err
          }
        })

      return WEBPACK FOOTER //

    transform = (errors) => {

      let seekStr = "is not exactly one from <#/definitions/parameter>,<#/definitions/jsonReference>"

      return errors
        .map(err => {
          let message = err.get("message")
          let isParameterOneOfError = message.indexOf(seekStr) > -1

          if(isParameterOneOfError) {
            // try to find what's wrong
            return createTailoredParameterError(err, jsSpec)
          } else {
            return err
          }
        })

    transform = (errors) => {

      let seekStr = "is not of type\"\" or "\"

      return errors
        .map(err => {
          let message = err.get("message")
          let isParameterOneOfError = message.indexOf(seekStr) > -1

          if(isParameterOneOfError) {
            // try to find what's wrong
            return createTailoredParameterError(err, jsSpec)
          } else {
            return err
          }
        })

    ERROR is currently disabled */

    error = fromJS(loader)

    error = error.set("type", "spec")

    return state
      .update("errors", errors =>
        transformErrors(errors, system.getSystem())
      )

  }

export default function transformErrors (errors, system) {

  let inputs = {
    jsSpec: system.specSelectors.specJson().toJS()
  }

  let transformedErrors = reduce(errorTransformers, (result, transformer) => {

    try {
      let newlyTransformedErrors = transformer.transform(result, inputs)
      return newlyTransformedErrors.filter(err => !!err) // filter removed errors
    } catch(e) {
      console.error("Transformer error:", e)
      return result
    }
  }, errors)

  return transformedErrors
    .filter(err => !!err) // filter removed errors
    .map(err => {
      if(!err.get("line") && err.get("path")) {
        // TODO: re-resolve line number if we've transformed it away
      }
      return err
    })

}
level: \"error\"\n })\n }\n\n if(parameter.collectionFormat &&
VALID_COLLECTIONFORMAT_VALUES.indexOf(parameter.collectionFormat) === -1) {\n let message =
`Wrong value for the \"collectionFormat\" keyword. Expected one of:
${VALID_COLLECTIONFORMAT_VALUES.join(\", \")}.`\n newErrs.push({\n
message,\n
path:
err.get(\"path\") + \".collectionFormat\",\n
type: \"spec\",\n
source: \"structural\",\n
level: \"error\"\n })\n
}\n\n return newErrs.length ? fromJS(newErrs) : err // fall back to making no changes\n\n}\n\n\n\n// WEBPACK
FOOTER //\n// ./src/core/plugins/err/error-transformers/transformers/parameter-oneof.js","import { List } from
\"immutable\"\nimport { createSelector } from \"reselect\"\n\nconst state = state => state\n\nexport const allErrors =
createSelector(\n state,\n err => err.get(\"errors\", List())\n)\n\nexport const lastError = createSelector(\n
allErrors,\n all => all.last()\n)\n\n\n\n\n// WEBPACK FOOTER //\n// ./src/core/plugins/err/selectors.js","import
reducers from \"./reducers\"\nimport * as actions from \"./actions\"\nimport * as selectors from
\"./selectors\"\n\nexport default function() {\n return {\n statePlugins: {\n
layout: {\n
reducers,\n
actions,\n
selectors\n
}\n }\n }\n}\n\n\n\n// WEBPACK FOOTER //\n//
./src/core/plugins/layout/index.js","import { fromJS } from \"immutable\"\nimport {\n UPDATE_LAYOUT,\n
UPDATE_FILTER,\n UPDATE_MODE,\n SHOW\n} from \"./actions\"\n\nexport default {\n\n
[UPDATE_LAYOUT]: (state, action) => state.set(\"layout\", action.payload),\n\n [UPDATE_FILTER]: (state,
action) => state.set(\"filter\", action.payload),\n\n [SHOW]: (state, action) => {\n const isShown =
action.payload.shown\n // This is one way to serialize an array, another (preferred) is to convert to json-pointer\n
// TODO: use json-pointer serilization instead of fromJS(...), for performance\n const thingToShow =
fromJS(action.payload.thing)\n // This is a map of paths to bools\n // eg: [one, two] => true\n // eg: [one] =>
false\n return state.update(\"shown\", fromJS({}), a => a.set(thingToShow, isShown))\n },\n\n
[UPDATE_MODE]: (state, action) => {\n let thing = action.payload.thing\n let mode = action.payload.mode\n
return state.setIn([\"modes\"].concat(thing), (mode || \"\") + \"\")\n }\n\n}\n\n\n\n// WEBPACK FOOTER //\n//
./src/core/plugins/layout/reducers.js","import { createSelector } from \"reselect\"\nimport { normalizeArray } from
\"core/utils\"\nimport { fromJS } from \"immutable\"\n\nconst state = state => state\n\nexport const current = state
=> state.get(\"layout\")\n\nexport const currentFilter = state => state.get(\"filter\")\n\nexport const isShown = (state,
thing, def) => {\n thing = normalizeArray(thing)\n return state.get(\"shown\", fromJS({})).get(fromJS(thing),
def)\n}\n\nexport const whatMode = (state, thing, def=\"\") => {\n thing = normalizeArray(thing)\n return
state.getIn([\"modes\", ...thing], def)\n}\n\nexport const showSummary = createSelector(\n state,\n state =>
!isShown(state, \"editor\")\n)\n\n\n\n// WEBPACK FOOTER //\n// ./src/core/plugins/layout/selectors.js","// call
something on iterator step with safe closing on error\nvar anObject = require('./_an-object');\nmodule.exports =
function (iterator, fn, value, entries) {\n try {\n return entries ? fn(anObject(value)[0], value[1]) : fn(value);\n //
7.4.6 IteratorClose(iterator, completion)\n } catch (e) {\n var ret = iterator['return'];\n if (ret !== undefined)
anObject(ret.call(iterator));\n throw e;\n }\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/library/modules/_iter-call.js\n// module id = 331\n// module chunks = 0","// check on default
Array iterator\nvar Iterators = require('./_iterators');\nvar ITERATOR = require('./_wks')('iterator');\nvar ArrayProto
= Array.prototype;\n\nmodule.exports = function (it) {\n return it !== undefined && (Iterators.Array === it ||
ArrayProto[ITERATOR] === it);\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/corejs/library/modules/_is-array-iter.js\n// module id = 332\n// module chunks = 0","var ITERATOR =
require('./_wks')('iterator');\nvar SAFE_CLOSING = false;\n\ntry {\n var riter = [7][ITERATOR]();\n riter['return']
= function () { SAFE_CLOSING = true; };\n // eslint-disable-next-line no-throw-literal\n Array.from(riter, function
() { throw 2; });\n} catch (e) { /* empty */ }\n\nmodule.exports = function (exec, skipClosing) {\n if (!skipClosing
&& !SAFE_CLOSING) return false;\n var safe = false;\n try {\n var arr = [7];\n var iter = arr[ITERATOR]();\n
iter.next = function () { return { done: safe = true }; };\n arr[ITERATOR] = function () { return iter; };\n
exec(arr);\n } catch (e) { /* empty */ }\n return safe;\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/library/modules/_iter-detect.js\n// module id = 333\n// module chunks = 0","import reducers
from \"./reducers\"\nimport * as actions from \"./actions\"\nimport * as selectors from \"./selectors\"\nimport * as
wrapActions from \"./wrap-actions\"\n\nexport default function() {\n return {\n statePlugins: {\n
spec: {\n

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wrapActions, in reducers, in actions, in selectors in console.log

WEBPACK FOOTER

//

import { fromJS, List } from "immutable";
import { fromJSOrdered, validateParam, paramToValue } from "core/utils";
import win from "../../window";
import { fromJS, List } from "immutable"
import { fromJSOrdered, validateParam, paramToValue } from "core/utils"
import win from "../../window"
import specJsonWithResolvedSubtrees
import parameterValues, parameterInclusionSettingFor,
from "./selectors"; from "./utils"; from "../../window";
import specJsonWithResolvedSubtrees, specJsonWithResolvedSubtrees
import specJsonWithResolvedSubtrees,
import specJsonWithResolvedSubtrees

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import specJsonWithResolvedSubtrees,
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import specJsonWithResolvedSubtrees,
import specJsonWithResolvedSubtrees,
Could not render { name === \"t\" ? \"this component\" : name }, see the console.<i>Could not render { name === \"t\" ? \"this component\" : name }, see the console.</i>
getTextContentAccessor() { if (!contentKey & ExecutionEnvironment.canUseDOM) { // Prefer textContent to innerText because many browsers support both but innerText even when <div> does. contentKey = 'textContent' in document.documentElement ? 'textContent' : 'innerText'; return contentKey; } }

FOOTER
require('./DOMProperty');

var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactInstrumentation = require('./ReactInstrumentation');

var quoteAttributeValueForBrowser = require('./quoteAttributeValueForBrowser');
var warning = require('fbjs/lib/warning');

var VALID_ATTRIBUTE_NAME_REGEXP = new RegExp('^[', DOMProperty.ATTRIBUTE_NAME_START_CHAR + ']*$');

var illegalAttributeNameCache = {};
var validatedAttributeNameCache = {};
var attributeNameSafe = function(attributeName) {
  if (validatedAttributeNameCache.hasOwnProperty(attributeName)) {
    return true;
  }
  if (illegalAttributeNameCache.hasOwnProperty(attributeName)) {
    return false;
  }
  if (VALID_ATTRIBUTE_NAME_REGEXP.test(attributeName)) {
    validatedAttributeNameCache[attributeName] = true;
    return true;
  }
  illegalAttributeNameCache[attributeName] = true;
  process.env.NODE_ENV !== 'production' ? warning(false, 'Invalid attribute name: `%s`', attributeName) : void 0;
  return false;
}

function shouldIgnoreValue(propertyInfo, value) {
  return value == null || propertyInfo.hasBooleanValue && !value ||
    propertyInfo.hasOverloadedBooleanValue && &value === true;}

function createMarkupForID(id) {
  return DOMProperty.ID_ATTRIBUTE_NAME + '=' + quoteAttributeValueForBrowser(id);
}

function setValueForProperty(node, name, value) {
  var propertyInfo = DOMProperty.properties.hasOwnProperty(name) ?
    DOMProperty.properties[name] : null;
  if (propertyInfo) {
    if (shouldIgnoreValue(propertyInfo, value)) {
      return;
    }
    var attributeName = propertyInfo.attributeName;
    var namespace = propertyInfo.attributeNamespace;
    if (namespace) {
      node.setAttributeNS(namespace, attributeName, '' + value);
    } else if (propertyInfo.hasBooleanValue || propertyInfo.hasOverloadedBooleanValue && value === true) {
      node.setAttribute(attributeName, '');
    } else {
      node.setAttribute(attributeName, '' + value);
    }
  } else if (DOMProperty.isCustomAttribute(name)) {
    DOMPropertyOperations.setValueForAttribute(node, name, value);
  }
  if (process.env.NODE_ENV !== 'production') {
    var payload = {};
    payload[name] = value;
    node.setAttributeNS(nameSpace, attributeName, '' + value);
  }
  return true;
}

function createMarkupForCustomAttribute(name, value) {
  if (!isAttributeNameSafe(name) || value == null) {
    return '';
  }
  return name + '=' + quoteAttributeValueForBrowser(value);
}

function createMarkupForProperty(name, value) {
  var propertyInfo = DOMProperty.properties.hasOwnProperty(name) ?
    DOMProperty.properties[name] : null;
  if (propertyInfo) {
    if (shouldIgnoreValue(propertyInfo, value)) {
      return '';
    }
    var attributeName = propertyInfo.attributeName;
    if (propertyInfo.hasBooleanValue || propertyInfo.hasOverloadedBooleanValue && value === true) {
      node.setAttribute(attributeName, '');
    } else if (propertyInfo.hasBooleanValue || propertyInfo.hasOverloadedBooleanValue && value === true) {
      node.setAttribute(attributeName, '');
    } else if (DOMProperty.isCustomAttribute(name)) {
      DOMPropertyOperations.setValueForAttribute(node, name, value);
    }
  }
  if (process.env.NODE_ENV !== 'production') {
    var payload = {};
    payload[name] = value;
    node.setAttributeNS(nameSpace, attributeName, '' + value);
  }
  return true;
}
function updateOptions(inst, multiple, propValue) {
  var selectedValue, i;
  var options = ReactDOMComponentTree.getNodeFromInstance(inst).options;

  if (multiple) {
    selectedValue = {};
    for (i = 0; i < propValue.length; i++) {
      selectedValue[" + propValue[i] = true;
    }
    for (i = 0; i < options.length; i++) {
      var selected = selectedValue.hasOwnProperty(options[i].value);
    }
    if (selectedValue) {
      for (i = 0; i < options.length; i++) {
        selectedValue[options[i].value] = true;
        return;
      }
    } else {
      // Do not set 'select.value' as exact behavior isn't consistent across all browsers for all cases.
      selectedValue = " + propValue
    }
  } else {
    // Do not set
    for (i = 0; i < options.length; i++) {
      if (options[i].selected !== true) {
        options[i].selected = true;
      }
    }
  }
}

function _handleChange(event) {
  var props = this._currentElement.props;
  var returnValue = LinkedValueUtils.executeOnChange(props, event);
  if (this._rootNodeID) {
    ReactUpdates.asap(updateOptionsIfPendingUpdateAndMounted, this);
  }
  return returnValue;
}

module.exports = ReactDOMSelect;

/**
 * Implements a <select> host component that allows optionally setting the props `value` and
 * `defaultValue`. If `multiple` is false, the prop must be a stringable. If `multiple` is true, the prop must be an array
 * of stringables. If `value` is not supplied (or null/undefined), user actions that change the selected option
 * will trigger updates to the rendered options.
 * If it is supplied (and not null/undefined), the rendered options will not update in response to user actions. Instead, the `value` prop must change in order for the rendered options to update.
 * If `defaultValue` is provided, any options with the supplied values will be selected.
 */
var ReactDOMSelect = {
  getHostProps: function (inst, props) {
    return _assign({}, props, {
      onChange: inst._wrapperState.onChange,
      value: undefined
    });
  },

  mountWrapper: function (inst, props) {
    if (process.env.NODE_ENV !== 'production') {
      checkSelectPropTypes(inst, props);
    }

    var value = LinkedValueUtils.getValue(props);
    inst._wrapperState = {
      pendingUpdate: false,
      initialValue: value != null ? value : props.defaultValue,
      listeners: null,
      onChange: _handleChange.bind(inst),
      wasMultiple: Boolean(props.multiple)
    };
  },

  getSelectValueContext: function (inst) {
    // ReactDOMOption looks at this initial value so the initial generated
    // markup has correct `selected` attributes
    return inst._wrapperState.initialValue;
  },

  postUpdateWrapper: function (inst) {
    var props = inst._currentElement.props;
    var value = LinkedValueUtils.getValue(props);

    if (value != null) {
      inst._wrapperState.pendingUpdate = false;
      updateOptions(inst, Boolean(props.multiple), value);
    } else if (wasMultiple !== Boolean(props.multiple)) {
      // For simplicity, reapply 'defaultValue' if 'multiple' is toggled.
      if (props.defaultValue != null) {
        updateOptions(inst, Boolean(props.multiple), props.defaultValue);
      } else {
        // Revert the select back to its default unselected state.
        updateOptions(inst, Boolean(props.multiple), props.multiple ? [] : '');
      }
    }
  }
};

function updateOptionsIfPendingUpdateAndMounted(component) {
  var inst = component._currentElement.nodeType;
  var value = component._currentElement.props.value;

  if (value != null) {
    component._wrapperState.pendingUpdate = false;
    updateOptions(component, Boolean(component._currentElement.props.multiple), value);
  } else if (wasMultiple !== Boolean(component._currentElement.props.multiple)) {
    component._wrapperState.pendingUpdate = false;
    updateOptions(component, Boolean(component._currentElement.props.multiple), props.defaultValue);
  }
}

function checkSelectPropTypes(inst, props) {
  if (process.env.NODE_ENV !== 'production') {
    var propName = (typeof props.multiple) !== 'undefined' ? 'multiple' : null;
    var err = null;

    if (propName) {
      if (typeof props.multiple !== 'boolean') {
        err = new Error('Expected ' + propName + ' to be a boolean, got ' + typeof props.multiple);
        throw err;
      }
    } else {
      if (props.multiple) {
        err = new Error('Invalid prop `multiple` supplied to <select>.
            A value of true requires a value prop to be supplied.
            A value of false is the default and means that nothing will be selected by default.
            For more information, see https://facebook.github.io/react/docs/select-components.html
       );
        throw err;
      }
    }
  }
}

var ReactDOMSelect = ReactCompositeComponentWrapper;

ReactDOMSelect.propTypes = {
  value: React.PropTypes.any,
  defaultValue: React.PropTypes.any
};

ReactDOMSelect.getDefaultProps = function () {
  return {
    value: null,
    defaultValue: null
  };
}

ReactDOMSelect.prototype = ReactCompositeComponentWrapper.prototype;

ReactDOMSelect.prototype.constructor = ReactDOMSelect;

ReactDOMSelect.determineClassForType = function (props, _NodeClass) {
  return ReactDOMSelect;
};
getDeclarationErrorAddendum(owner) {\n  if (owner) {\n    var name = owner.getName();\n    if (name) {\n      return `' Check the render method of ` + name + `.\n    }\n  }\n  return `;\n}\n
/**\n * Check if the type reference is\n * a known internal type. I.e. not a user\n * provided composite type.\n * @param {function} type\n * @return {boolean}\n * Returns true if this is a valid internal type.\n */\nfunction isInternalComponentType(type) {\n  return typeof type === 'function' && typeof type.prototype !== 'undefined' && typeof type.prototype.receiveComponent === 'function';\n}

/**\n * Given a ReactNode, create an instance that will actually be mounted.\n * @param {ReactNode} node\n * @return {object}\n */\nfunction instantiateReactComponent(node, shouldHaveDebugID) {\n  var instance;\n
  if (node === null || node === false) {\n    instance = ReactEmptyComponent.create(instantiateReactComponent);\n  } else if (typeof node === 'object') {\n    var element = node;\n    var type = element.type;\n    if (typeof type !== 'function' && typeof type !== 'string') {\n      info = '';\n      if (process.env.NODE_ENV !== 'production') {\n        if (type === undefined || typeof type === 'object' && type !== null && Object.keys(type).length === 0) {\n          info += ' You likely forgot to export your component from the file ' + `\n` + `\n          info += \n        }\n      }\n      info += getDeclarationErrorAddendum(element._owner);\n      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);\n    }\n
    // Special case string values\n    if (typeof element.type === 'string') {\n      instance = ReactHostComponent.createInternalComponent(element);\n    } else if (isInternalComponentType(element.type)) {\n      // This is temporarily available for custom components that are not\n      // string\n      // representations. I.e. ART. Once those are updated to use the string\n      // representation, we can drop\n      this code path.\n    } else {\n      instance = new ReactComponentWrapper(element);\n    }\n
    // These two fields are used by the DOM and ART diffing algorithms\n    // respectively. Instead of using expandos on\n    // components, we should be\n    // storing the state needed by the diffing algorithms elsewhere.\n    instance._mountIndex = 0;\n    instance._mountImage = null;\n    if (process.env.NODE_ENV !== 'production') {\n      instance._debugID = shouldHaveDebugID ? getNextDebugID() : 0;\n    }\n
    // Internal instances should fully\n    // constructed at this point, so they should\n    // not get any new fields added to them at this point.\n    if (process.env.NODE_ENV !== 'production') {\n      object.preventExtensions(instance);\n    }\n  }\n
  return instance;\n}\n
_assign(ReactCompositeComponentWrapper.prototype, ReactCompositeComponent, {\n  _instantiateReactComponent: instantiateReactComponent});\n
module.exports = instantiateReactComponent;
callback, traverseContext) {\n var type = typeof children;\n\n if (type === 'undefined' || type === 'boolean') {\n //
All of the above are perceived as null.\n children = null;\n }\n\n if (children === null || type === 'string' || type
=== 'number' ||\n // The following is inlined from ReactElement. This means we can optimize\n // some checks.
React Fiber also inlines this logic for similar purposes.\n type === 'object' && children.$$typeof ===
REACT_ELEMENT_TYPE) {\n callback(traverseContext, children,\n // If it's the only child, treat the name as if
it was wrapped in an array\n // so that it's consistent if the number of children grows.\n nameSoFar === '' ?
SEPARATOR + getComponentKey(children, 0) : nameSoFar);\n return 1;\n }\n\n var child;\n var nextName;\n
var subtreeCount = 0; // Count of children found in the current subtree.\n var nextNamePrefix = nameSoFar === '' ?
SEPARATOR : nameSoFar + SUBSEPARATOR;\n\n if (Array.isArray(children)) {\n for (var i = 0; i <
children.length; i++) {\n
child = children[i];\n
nextName = nextNamePrefix + getComponentKey(child, i);\n
subtreeCount += traverseAllChildrenImpl(child, nextName, callback, traverseContext);\n }\n } else {\n var
iteratorFn = getIteratorFn(children);\n if (iteratorFn) {\n
var iterator = iteratorFn.call(children);\n var step;\n
if (iteratorFn !== children.entries) {\n
var ii = 0;\n
while (!(step = iterator.next()).done) {\n
child =
step.value;\n
nextName = nextNamePrefix + getComponentKey(child, ii++);\n
subtreeCount +=
traverseAllChildrenImpl(child, nextName, callback, traverseContext);\n
}\n
} else {\n
if
(process.env.NODE_ENV !== 'production') {\n
var mapsAsChildrenAddendum = '';\n
if
(ReactCurrentOwner.current) {\n
var mapsAsChildrenOwnerName =
ReactCurrentOwner.current.getName();\n
if (mapsAsChildrenOwnerName) {\n
mapsAsChildrenAddendum = ' Check the render method of `' + mapsAsChildrenOwnerName + '`.';\n
}\n
}\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.%s', mapsAsChildrenAddendum) : void 0;\n
didWarnAboutMaps = true;\n
}\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
child = entry[1];\n
nextName = nextNamePrefix +
KeyEscapeUtils.escape(entry[0]) + SUBSEPARATOR + getComponentKey(child, 0);\n
subtreeCount +=
traverseAllChildrenImpl(child, nextName, callback, traverseContext);\n
}\n
}\n
}\n } else if (type
=== 'object') {\n
var addendum = '';\n
if (process.env.NODE_ENV !== 'production') {\n
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.';\n
if (children._isReactElement) {\n
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.';\n
}\n
if (ReactCurrentOwner.current) {\n
var name =
ReactCurrentOwner.current.getName();\n
if (name) {\n
addendum += ' Check the render method of `' +
name + '`.';\n
}\n
}\n
}\n
var childrenString = String(children);\n
!false ?
process.env.NODE_ENV !== 'production' ? invariant(false, 'Objects are not valid as a React child (found: %s).%s',
childrenString === '[object Object]' ? 'object with keys {' + Object.keys(children).join(', ') + '}' : childrenString,
addendum) : _prodInvariant('31', childrenString === '[object Object]' ? 'object with keys {' +
Object.keys(children).join(', ') + '}' : childrenString, addendum) : void 0;\n }\n }\n\n return
subtreeCount;\n}\n\n/**\n * Traverses children that are typically specified as `props.children`, but\n * might also be
specified through attributes:\n *\n * - `traverseAllChildren(this.props.children, ...)`\n * `traverseAllChildren(this.props.leftPanelChildren, ...)`\n *\n * The `traverseContext` is an optional argument that is
passed through the\n * entire traversal. It can be used to store accumulations or anything else that\n * the callback
might find relevant.\n *\n * @param {?*} children Children tree object.\n * @param {!function} callback To invoke
upon traversing each child.\n * @param {?*} traverseContext Context for traversal.\n * @return {!number} The
number of children in this subtree.\n */\nfunction traverseAllChildren(children, callback, traverseContext) {\n if
(children == null) {\n return 0;\n }\n\n return traverseAllChildrenImpl(children, '', callback,
traverseContext);\n}\n\nmodule.exports = traverseAllChildren;\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/react-dom/lib/traverseAllChildren.js\n// module id = 371\n// module chunks = 0","/**\n * Copyright
(c) 2016-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n *

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try { if (isCreatingElement) { stack.push({ name: id ? ReactComponentTreeHook.getDisplayName(id) : null, fileName: currentSource ? currentSource.fileName : null, lineNumber: currentSource ? currentSource.lineNumber : null }); } else { stack.push({ name: ownerName._debugID, fileName: currentSource ? currentSource.fileName : null, lineNumber: currentSource ? currentSource.lineNumber : null }); }

    try {
      if (isCreatingElement) {
        stack.push({ name: id ? ReactComponentTreeHook.getDisplayName(id) : null, fileName: currentSource ? currentSource.fileName : null, lineNumber: currentSource ? currentSource.lineNumber : null });
      }

      while (id) {
        var element = ReactComponentTreeHook.getElement(id);
        var parentID = ReactComponentTreeHook.getParentID(id);
        var ownerID = ReactComponentTreeHook.getOwnerID(id);
        var ownerName = ownerID ? ReactComponentTreeHook.getDisplayName(ReactComponentTreeHook.getOwnerID(id)) : null;
        var source = element && element._source;
        stack.push({ name: ownerName, fileName: source.fileName, lineNumber: source ? source.lineNumber : null });
        id = parentID;
      }
    } catch (err) {
      // Internal state is messed up.
      // Stop building the stack (it's just a nice to have).
    }

    console.reactStack(stack);
  },
  popNonStandardWarningStack: function () {
    if (typeof console.reactStackEnd !== 'function') {
      return;
    }
    console.reactStackEnd();
  }
};

module.exports = ReactComponentTreeHook;

//////////////////
// WEBPACK FOOTER
// module id = 372
// 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.
 */

var EventListener = {
  /**
   * Listen to DOM events during the bubble phase.
   *
   * @param {DOMEventTarget} target DOM element to register listener on.
   * @param {string} eventType Event type, e.g. 'click' or 'mouseover'.
   * @param {function} callback Callback function.
   * @return {object} Object with a `remove` method.
   */
  listen: function listen(target, eventType, callback) {
    if (target.addEventListener) {
      target.addEventListener(eventType, callback, false);
      return {
        remove: function remove() {
          target.removeEventListener(eventType, callback, false);
        }
      };
    } else if (target.attachEvent) {
      target.attachEvent('on' + eventType, callback);
      return {
        remove: function remove() {
          target.detachEvent('on' + eventType, callback);
        }
      };
    }
  },

  /**
   * Listen to DOM events during the capture phase.
   *
   * @param {DOMEventTarget} target DOM element to register listener on.
   * @param {string} eventType Event type, e.g. 'click' or 'mouseover'.
   * @param {function} callback Callback function.
   * @return {object} Object with a 'remove' method.
   */
  capture: function capture(target, eventType, callback) {
    if (target.addEventListener) {
      target.addEventListener(eventType, callback, true);
      return {
        remove: function remove() {
          target.removeEventListener(eventType, callback, true);
        }
      };
    } else if (process.env.NODE_ENV !== 'production') {
      console.error('Attempted to listen to events during the capture phase on a ' + 'browser that does not support the capture phase. Your application ' + 'will not receive some events.');
    }
    return {
      remove: emptyFunction
    };
  },

  registerDefault: function registerDefault() {
    return {
      defaultCaptureMap: {}
    };
  }
};

module.exports = EventListener;


//////////////////
// WEBPACK FOOTER
// module id = 373
// 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 ReactDOMSelection = require('./ReactDOMSelection');

var containsNode = require('fbjs/lib/containsNode');
var focusNode = require('fbjs/lib/focusNode');
var getActiveElement = require('fbjs/lib/getActiveElement');

function isInDocument(node) {
  return containsNode(document.documentElement, node);
}

function 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.getSelectionInformation(focusedElem) : null
    };
  },

  restoreSelection: function () {
    if (any selection information was potentially lost, then restore it.
  }
}
This is useful when performing operations that could remove dom\n  * nodes and place them back in, resulting in focus being lost.
  *\n  */

  restoreSelection: function (priorSelectionInformation) {
    var curFocusedElem = priorFocusedElem;
    var priorFocusedElem = priorSelectionInformation.focusedElem;
    var priorSelectionRange = priorSelectionInformation.selectionRange;
    if (curFocusedElem !== priorFocusedElem && isInDocument(priorFocusedElem)) {
      var ReactInputSelection = ReactInputSelection.setSelection(priorFocusedElem, priorSelectionRange);
      focusNode(priorFocusedElem);
    }
  },

  /**
   * @getSelection: Gets the selection bounds of a focused
textarea, input or
   * contentEditable node.\n   *
   * -@input: Look up selection bounds of this input\n   * -@return
   *
   * {start: selectionStart, end: selectionEnd}\n   */

  getSelection: function (input) {
    var selection = ReactDOMSelection.getOffsets(input);
    return selection || { start: 0, end: 0 };\n  },

  /**
   * @setSelection: Sets the selection bounds of a textarea or input and focuses
   * the input.\n   *
   * -@input     Set
   * -@offsets   Object of same form that is returned from get*
   */

  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;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/ReactInputSelection.js

/* 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.
 *
 * @typechecks
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var DOMLazyTree = require('./DOMLazyTree');
var DOMProperty = require('./DOMProperty');
var React = 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 ReactInstanceMap = require('./react/lib/ReactInstanceMap');
var ReactInstrumentation = require('./ReactInstrumentation');
var ReactMarkupChecksum = require('./ReactMarkupChecksum');
var ReactReconciler = require('./ReactReconciler');
var ReactUpdateQueue = require('./ReactUpdateQueue');
var ReactUpdates = require('./ReactUpdates');
var

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context) {
   // Various parts of our code (such as ReactCompositeComponent's
   // _renderValidatedComponent) assume that calls to render aren't nested
   // verify that that's the case.
   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 nested updates in ' + 'componentDidUpdate.
   Check the render method of %s', ReactCurrentOwner.current && ReactCurrentOwner.current.getName() ||
   'ReactCompositeComponent()': void 0;\n   !_isValidContainer(container) ? process.env.NODE_ENV !== 'production' ? invariant(false, '_registerComponent(...): Target container is not a DOM element.') : _prodInvariant('37') : void 0;
   ReactBrowserEventEmitter.ensureScrollValueMonitoring();
   var componentInstance = instantiateReactComponent(nextElement, false);\n   // The initial render is synchronous but any updates that happen during\n   // rendering, in componentWillMount or componentDidMount, will be batched\n   // according to the current batching strategy.\n   ReactUpdates.batchedUpdates(batchedMountComponentIntoNode, componentInstance, container,
   shouldReuseMarkup, context);\n   var wrapperID = componentInstance._instance.rootID;\n   instancesByReactRootID[wrapperID] = componentInstance;\n   return componentInstance;\n}

Renders a React component into the DOM in the supplied 'container'.\n
   * If the React component was previously rendered into 'container', this will\n     * perform an update on it and only mutate the DOM as necessary to reflect the\n     * latest React component.\n
   * @param {ReactComponent} parentComponent The conceptual\n     parent of this render tree.\n   * @param {ReactElement} nextElement Component element to render.\n   * @param {DOMElement} container DOM element to render into.\n   * @param {?function} callback function triggered on\n     completion\n   * @return {ReactComponent} Component instance rendered in 'container'.\n
renderSubtreeIntoContainer: function (parentComponent, nextElement, container, callback) {\n
  !(parentComponent != null && ReactInstanceMap.has(parentComponent)) \n  ? 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<br />
   " : typeof nextElement === 'function' ? ' Instead of passing a class like Foo, pass ' +
     'React.createElement(Foo) or <Foo />.' : // Check if it quacks like an element\n     nextElement != null &&
   nextElement.props != undefined ? ' This may be caused by unintentionally loading two independent ' + 'copies of React.:' +
     '_prodInvariant(39', 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.:' +
     ' ); void 0;\n   process.env.NODE_ENV !== 'production' ? warning(!container ||
     container.tagName.toUpperCase() !== 'BODY', 'render(): Rendering components directly into document.body is ' +
     'discouraged, since its children are often manipulated by third-party '+
     'scripts and browser extensions. This may lead to subtle '+
     'reconciliation issues. Try rendering into a container element created '+
     'for your app.); void 0;\n   var nextWrappedElement = React.createElement(TopLevelWrapper, {\n     \n   nextContext:\n
   if (parentComponent) {\n
   } else {\n
   }\n   var nextContext = emptyObject;\n   \n
   if (prevComponent) {\n
   } var prevWrappedElement = prevComponent._currentElement;\n   \n
   if (shouldUpdateReactComponent(prevElement, nextElement)) {\n
   if (prevComponent) {\n
   } var prevWrappedElement = prevComponent._currentElement;\n   \n
   var newWrappedElement = React.createElement(TopLevelWrapper, {\n     \n
   nextContext = prevComponent._processChildContext(prevComponent._context);\n   }\n   \n
   if (prevWrappedElement.props.child) {\n
   } var publicInst = prevComponent._renderedComponent.getPublicInstance();\n
   \n
   ReactMount._updateRootComponent(prevComponent,

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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') {
    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, ' + 'you should instead have the existing children update their state ' + 'and render the new components instead of calling ReactDOM.render.: void 0; } 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; if (!prevComponent && !containerHasNonRootReactChild) {
    var shouldReuseMarkup = containerHasReactMarkup; var component = ReactMount._renderNewRootComponent(nextWrappedElement, container, shouldReuseMarkup, nextContext).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.
   * @param {ReactElement} nextElement Component element to
   * render.
   * @param {DOMElement} container DOM element to render into.
   * @param {?function} callback function triggered on completion
   * @return {ReactComponent} Component instance rendered in `container`.
   */
  render: function (nextElement, container, callback) {
    return ReactMount._renderSubtreeIntoContainer(null, nextElement, container, callback);
  },

  /**
   * Unmounts and destroys the React component rendered in the
   * `container`.
   * See https://facebook.github.io/react/docs/top-level-api.html#reactdom.unmountcomponentatnode
   * @param {DOMElement} container DOM element containing a React component.
   * @return {boolean} True if a component was found in and unmounted from
   * `container`.
   */
  unmountComponentAtNode: function (container) {
    // Various parts of our code (such as ReactCompositeComponent's
    // _renderValidatedComponent) assume that calls to render aren't nested;
    // verify that that's the case. (Strictly speaking, unmounting won't cause a
    // render but we still don't expect to be in a
    // render call here.)
    process.env.NODE_ENV !== 'production' ? warning(ReactCurrentOwner.current == null, 'unmountComponentAtNode(): 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.getName() || 'ReactCompositeComponent') : void 0;
    // Check if the node being unmounted was rendered by React, but isn't a node // root node.
    var containerHasNonRootReactChild = hasNonRootReactChild(container); if (!prevComponent) {
      // Check if the node being unmounted was rendered by React and is not a top-level container. %s, isContainerReactRoot? You may have accidentally passed in a React root node instead + 'of its container.': 'Instead, have the parent component update its
state and 'rerender in order to remove this component.'}) : void 0};
  )\n  return false;\n}\n\n\nReactUpdates.batchedUpdates(unmountComponentFromNode, prevComponent, container, false);\n\n  return true;\n};
\n\n\n\n\nReactComponentTree._mountImageIntoNode: function (markup, container, instance, shouldReuseMarkup, transaction) {\n  if (isValidContainer(container)) \n    process.env.NODE_ENV !== 'production' ? invariant(false, \n      'mountComponentIntoNode(...): Target container is not valid.') : _prodInvariant('41') : void 0;

  if (shouldReuseMarkup) {\n    \n    var rootElement = ReactRootElementInContainer(container);\n    if (ReactMarkupChecksum.canReuseMarkup(markup, rootElement)) {\n      ReactDOMComponentTree.precacheNode(instance, rootElement);\n      return;\n    } else {\n      var checksum = rootElement.getAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME);\n      rootElement.removeAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME);\n      var rootMarkup = rootElement.outerHTML;\n      rootElement.setAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME, checksum);\n      var normalizedMarkup = markup;\n      if (process.env.NODE_ENV !== 'production') \n        // because rootMarkup is retrieved from the DOM, various normalizations will have occurred which will not be present in `markup`. Here, insert markup into a <div> or <iframe> depending on the container
        // type to perform the same normalizations before comparing.\n        var normalizer;\n        if (container.nodeType \n          !== ELEMENT_NODE_TYPE) {\n          normalizer = document.createElement('div');\n          normalize.innerHTML = markup;\n          normalizedMarkup = normalizer.innerHTML;\n        } else {\n          normalizer = document.createElement('iframe');\n          document.body.appendChild(normalizer);\n          normalize.contentDocument.write(markup);\n          normalizedMarkup = normalize.contentDocument.documentElement.parentNode;\n        }\n
        var diffIndex = firstDifferenceIndex(normalizedMarkup, rootMarkup);\n
        var difference = '
          (client) ' + normalizedMarkup.substring(diffIndex - 20, diffIndex + 20) + '
          (server) ' + rootMarkup.substring(diffIndex - 20, diffIndex + 20);\n
        if (process.env.NODE_ENV !== 'production') \n          \n          process.env.NODE_ENV !== 'production' ? invariant(false, \n            'You\'re trying to render a component to the document using server rendering but the checksum was invalid. This usually means you rendered a different component type or props on the client from the one on the server, or your render() methods are impure. React cannot handle this case due to cross-browser quirks by rendering at the document root. You should look for environment dependent code in your components and ensure the props are the same client and server side:\n            %s', difference) : _prodInvariant('42', difference) ; \n        }
    }

    if (container.nodeType !== DOC_NODE_TYPE) \n      process.env.NODE_ENV !== 'production' ? invariant(false, \n        'You\'re trying to render a component to the document but you didn\'t use server rendering. We can\'t do this without using server rendering due to cross-browser quirks. See ReactDOMServer.renderToString() for server rendering.') : _prodInvariant('43') ; \n
    if (transaction.useCreateElement) {\n      while (container.lastChild) {\n        container.removeChild(container.lastChild);\n      }\n      DOMLazyTree.insertTreeBefore(container, markup, null);\n    } else {\n      setInnerHTML(container, markup);\n      ReactDOMComponentTree.precacheNode(instance, container.firstChild);\n    }\n    if (process.env.NODE_ENV !== 'production') \n      \n      // for ReactInstrumentation\n      process.env.NODE_ENV !== 'production' ? warning(false, \n        'React attempted to reuse markup in a container but the 
        + checksum was invalid. This generally means that you are 
        + using server rendering and the markup generated on the 
        + server was not what the client was expecting. React injected 
        + new markup to compensate which works but you have lost many 
        + of the benefits of server rendering. Instead, figure out 
        + why the markup being generated is different on the client 
        + or server:

        process.env.NODE_ENV !== 'production' ? invariant(false, \n          'You\'re trying to render a component to the document but you didn\'t use server rendering. We can\'t do this without using server rendering due to cross-browser quirks. See ReactDOMServer.renderToString() for server rendering.') : _prodInvariant('43') ; void 0;\n    }
  }

  if (transaction.useCreateElement) {\n    \n    \n    \n    while (container.lastChild) {\n      container.removeChild(container.lastChild);\n    }\n    DOMLazyTree.insertTreeBefore(container, markup, null);\n  } else {\n    setInnerHTML(container, markup);\n    ReactDOMComponentTree.precacheNode(instance, container.firstChild);\n  }\n  if (process.env.NODE_ENV !== 'production') \n    \n    ReactUpdateQueue觇 epoch\n    ReactUpdates.batchedUpdates(unmountComponentFromNode, prevComponent, container, false);\n    return true;\n  }

  \n  return false;
};

\n\n\n
getHostComponentFromComposite(inst) {
  var type;
  while ((type = inst._renderedNodeType) === ReactNodeTypes.COMPOSITE) {
    inst = inst._renderedComponent;
  }

  if (type === ReactNodeTypes.HOST) {
    return inst._renderedComponent;
  } else if (type === ReactNodeTypes.EMPTY) {
    return null;
  }
}

exports.getHostComponentFromComposite = getHostComponentFromComposite;

原因之一是它声明了 `getHostComponentFromComposite` 函数，该函数遍历组件树以查找最外层的组件。这个函数可以用于在渲染过程中定位组件的宿主容器，这对于管理组件之间的嵌套层次非常有用。
@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} [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 || (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, 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;
      subValue = value[key];
    }
    // Recursively populate clone (susceptible to call stack limits).
    assignValue(result, key, baseClone(subValue, bitmask, customizer, key, value, stack));
  });
  return result;
}

module.exports = baseClone;


////////////////////////////////////////////////////////////////////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseClone.js
// module id = 380
// module chunks = 0

var arrayLikeKeys = require('./_arrayLikeKeys'),
    baseKeysIn = require('./_baseKeysIn'),
    isArrayLike = require('./isArrayLike');

/**
 * Creates an array of the own and inherited enumerable property names of `object`.
 * (iteration order is not guaranteed)
 * @static
 * @memberOf _
 * @since 3.0.0
 * @category Object
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 */
function keysIn(object) {
  return isArrayLike(object) ?
    arrayLikeKeys(object, true) : baseKeysIn(object);
}

module.exports = keysIn;


////////////////////////////////////////////////////////////////////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_keysIn.js
// module id = 381
// module chunks = 0

var baseGetAllKeys = require('./_baseGetAllKeys'),
    getSymbolsIn = require('./_getSymbolsIn'),
    keysIn = require('./keysIn');

/**
 * Creates an array of own and inherited enumerable property names and symbols of `object`.
 * (iteration order is not guaranteed)
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 */
function getAllKeysIn(object) {
  return baseGetAllKeys(object, keysIn, getSymbolsIn);
}

module.exports = getAllKeysIn;


////////////////////////////////////////////////////////////////////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_getAllKeysIn.js
// module id = 382
// module chunks = 0

var baseGetAllKeys = require('./_baseGetAllKeys'),
    getSymbolsIn = require('./_getSymbolsIn'),
    keysIn = require('./keysIn');

/**
 * Creates an array of own and inherited enumerable property names and symbols of `object`.
 * (iteration order is not guaranteed)
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 */
function getAllKeys(object, keysIn, getSymbolsIn) {
  return baseGetAllKeys(object, keysIn, getSymbolsIn);
}

module.exports = getAllKeys;


////////////////////////////////////////////////////////////////////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_getAllKeys.js
// module id = 383
// module chunks = 0

var baseGetAllKeys = require('./_baseGetAllKeys'),
    getSymbolsIn = require('./_getSymbolsIn'),
    keysIn = require('./keysIn');

/**
 * Creates an array of own and inherited enumerable property names and symbols of `object`.
 * (iteration order is not guaranteed)
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 */
function getAllKeys(object, keysIn, getSymbolsIn) {
  return baseGetAllKeys(object, keysIn, getSymbolsIn);
}

module.exports = getAllKeys;
module id = 383
module chunks = 0
var flatten = require('./flatten')
overRest = require('./_overRest')

setToString = require('./_setToString')

/**
 * A specialized version of `baseRest` which flattens the rest array.
 *
 * @private
 * @param {Function} func The function to apply a rest parameter to.
 * @returns {Function} Returns the new function.
 */
function flatRest(func) {
  return setToString(overRest(func, undefined, flatten), func + ')
}

module.exports = flatRest;


//////////////////
// WEBPACK FOOTER
// node_modules/lodash/_flatRest.js
// module id = 384
// module chunks = 0

apply = require('./_apply')

/* Built-in method references for those with the same name as other `lodash` methods. */

nativeMax = Math.max;

/**
 * A specialized version of `baseRest` which transforms the rest array.
 *
 * @private
 * @param {Function} func The function to apply a rest parameter to.
 * @param {number} [start=func.length-1] The start position of the rest parameter.
 * @param {Function} transform The rest array transform.
 * @returns {Function} Returns the new function.
 */
function overRest(func, start, transform) {
  start = nativeMax(start === undefined ? (func.length - 1) : start, 0);
  return function() {
    var args = arguments,
        index = -1,
        length = nativeMax(args.length - start, 0),
        array = Array(length);

    while (++index < length) {
      array[index] = args[start + index];
    }
    index = -1;
    var otherArgs = Array(start + 1);
    while (++index < start) {
      otherArgs[index] = args[index];
    }
    otherArgs[start] = transform(array);
    return apply(func, this, otherArgs);
  };
}

module.exports = overRest;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_overRest.js
// module id = 385
// module chunks = 0

var baseSetToString = require('./_baseSetToString'),
    shortOut = require('./_shortOut');

/**
 * Sets the `toString` method of `func` to return `string`.
 *
 * @private
 * @param {Function} func The function to modify.
 * @param {Function} string The `toString` result.
 * @returns {Function} Returns `func`.
 */
var setToString = shortOut(baseSetToString);

module.exports = setToString;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_setToString.js
// module id = 386
// module chunks = 0

import * as fn from './fn'

export default function () {
  return { fn }
}


// WEBPACK FOOTER //
// ./src/core/plugins/samples/index.js

export default function ({configs}) {
  const levels = {
    debug: 0,
    info: 1,
    log: 2,
    warn: 3,
    error: 4
  }

  const getLevel = (level) => levels[level] || -1

  let { logLevel } = configs
  let logLevelInt = getLevel(logLevel)

  function log(level, ...args) {
    if(getLevel(level) >= logLevelInt)
      // eslint-disable-next-line no-console
      console[level](...args)
  }

  log.warn = log.bind(null, 'warn')
  log.error = log.bind(null, 'error')
  log.info = log.bind(null, 'info')

  log.debug = log.bind(null, 'debug')

  return { rootInjects: { log } }
}


// WEBPACK FOOTER //
// ./src/core/plugins/swagger-js/index.js

module.exports = function(e) {
  function t(n) {
    if(r[n]) return r[n].exports;
    var a = r[n] = { i: n, l: !1, exports: {} }, f = function(e, r) {
      if(r[r]) return f(r[n].exports, r, e, !0, !1);
      var t = e[r], n = t.exports;
      return f(n, r, e, !0, !1);
    }, t = f(e, a);
    return t.exports
  }

  var r, n = [], s = {};
  for(i in e) s[i] = e[i];
  t = f(s, a);
  return t.exports
};

Open Source Used In MSX SD-WAN Service Pack 4.0.0 20396
var replace = String.prototype.replace;
var percentTwenties = /%20/g;

module.exports = {
    'default': 'RFC3986',

    formatters: {
        RFC1738: function (value) {
            return replace.call(value, percentTwenties, '+');
        },
        RFC3986: function (value) {
            return value;
        }
    },

    RFC1738: 'RFC1738',
    RFC3986: 'RFC3986'
};

//////////////////
// WEBPACK FOOTER
// ./node_modules/qs/lib/formats.js
// module id = 392
// module chunks = 0
*/
var equalsOptions = { strict: true };
var _equals = require('deep-equal');
var areEquals = function (a, b) {
    return _equals(a, b, equalsOptions);
};

var helpers_1 = require('./helpers');
exports.JsonPatchError = helpers_1.PatchError;
exports.deepClone = helpers_1._deepClone;

/* We use a Javascript hash to store each function. Each hash entry (property) uses
the operation identifiers specified in rfc6902. In this way, we can map each patch operation to its dedicted function in efficient way.

The operations applicable to an object */

objOps = {
    add: function (obj, key, document) {
        obj[key] = this.value;
        return { newDocument: document, removed: removed }
    },
    remove: function (obj, key, document) {
        var removed = obj[key];
        delete obj[key];
        return {
            newDocument: document, removed: removed
        }
    },
    replace: function (obj, key, document) {
        var removed = obj[key];
        obj[key] = this.value;
        return { newDocument: document, removed: removed, removed: removed }
    },
    move: function (obj, key, document) {
        /* in case move target overwrites an existing
value, return the removed value, this can be taking performance-wise, and is potentially unneeded
*/
        var removed = getValueByPointer(document, this.path);
        if (removed) {
            removed = helpers_1._deepClone(removed);
        }
        var originalValue = applyOperation(document, { op: "remove", path: this.from }).removed;
        applyOperation(document, { op: "add", path: this.path, value: originalValue });
        return { newDocument: document, removed: removed, removed: removed }
    },
    copy: function (obj, key, document) {
        var valueToCopy = getValueByPointer(document, this.from);
        // enforce copy by value so further operations don't affect source (see issue #177)
        applyOperation(document, { op: "add", path: this.path, value: valueToCopy });
        return { newDocument: document };
    },
    test: function (obj, key, document) {
        return { newDocument: document, test: areEquals(obj[key], this.value) }
    },
    _get: function (obj, key, document) {
        this.value = obj[key];
        return { newDocument: document };
    }
};

arrOps = {
    add: function (arr, i, document) {
        if (helpers_1.isInteger(i)) {
            arr.splice(i, 0, this.value);
        } else {
            arr[i] = this.value;
        }
        return { newDocument: document, removed: removed, removed: removed }
    },
    remove: function (arr, i, document) {
        var removedList = arr.splice(i, 1);
        return { newDocument: document, removed: removedList };
    },
    replace: function (arr, i, document) {
        var removed = arr[i];
        arr[i] = this.value;
        return { newDocument: document, removed: removed, removed: removed }
    },
    move: function (arr, i, document) {
        /* in case move target overwrites an existing
value, return the removed value, this can be taking performance-wise, and is potentially unneeded
*/
        var removed = getValueByPointer(document, this.path);
        if (removed) {
            removed = helpers_1._deepClone(removed);
        }
        var originalValue = applyOperation(document, { op: "remove", path: this.from }).removed;
        applyOperation(document, { op: "add", path: this.path, value: originalValue });
        return { newDocument: document, removed: removed, removed: removed }
    },
    copy: function (arr, key, document) {
        var valueToCopy = getValueByPointer(document, this.from);
        // enforce copy by value so further operations don't affect source (see issue #177)
        applyOperation(document, { op: "add", path: this.path, value: valueToCopy });
        return { newDocument: document };
    },
    test: function (arr, key, document) {
        return { newDocument: document, test: areEquals(arr[key], this.value) }
    },
    _get: function (arr, key, document) {
        this.value = arr[key];
        return { newDocument: document };
    }
};

/**
 * Retrieves a value from a JSON document by a JSON pointer.
 * Returns the value.
 *
 * @param document The document to get the value from
 * @param pointer an escaped JSON pointer
 * @return The retrieved value
 */
function getValueByPointer(document, pointer) {
    if (pointer == '') {
        return document;
    }
    var getOriginalDestination = { op: "_get", path: pointer };
    applyOperation(document, getOriginalDestination);
    return getOriginalDestination.value;
}

/**
 * Apply a single JSON Patch Operation on a JSON document.
 * Returns the {newDocument, result} of the operation.
 * 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, pointer) {
    var result = applyOperation(document, operation, pointer);
    // if (pointer == "")
    return result;
}

var getOriginalDestination = { op: "_get", path: pointer };
applyOperation(document, getOriginalDestination);
return getOriginalDestination.value;

function getValueByPointer(document, pointer) {
    if (pointer == "") {
        return document;
    }
    var getOriginalDestination = { op: "_get", path: pointer };
    applyOperation(document, getOriginalDestination);
    return getOriginalDestination.value;
}

// var exports.JsonPatchError = helpers_1.PatchError;
Open Source Used In MSX SD-WAN Service Pack 4.0.0  20411

```javascript
if (validateOperation === void 0) { validateOperation = false; } /* END ROOT OPERATIONS */
else {
    if (indexOf(value) !== -1) {
        if (typeof value === 'function') {
            validateFunction(operation, 0, document, existingPathFragment); return
        }
        else if (operation.op === '__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');
        }
        else if (operation.op === 'move') {
            returnValue.removed = document; returnValue.newDocument = getValueByPointer(document, operation.from); return
        }
        else if (operation.op === 'copy') {
            if (typeof operation.value === 'function') {
                validateFunction = validateOperation;
            }
            else {
                validateFunction = null;
            }
            return returnValue;
        }
        else if (operation.op === 'replace') {
            returnValue.newDocument = operation.value;
            return
        }
        else if (operation.op === 'add') {
            returnValue.newDocument = operation.value;
            return
        }
        else if (operation.op === '_get') {
            returnValue = arrOps[operation.op].call(operation, obj, key, document); // Apply patch
        }
        else if (operation.op === 'remove' || operation.op === 'copy') {
            returnValue.removed = document;
        }
        else {
            throw new exports.JsonPatchError('Operation `op` property is not one of operations defined in RFC-6902', 'OPERATION_OP_INVALID', index, operation, document);
        }
    }
    else {
        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 if (validateOperation === true) {
            validateFunction = true;
        }
        else if (validateOperation === false) {
            validateFunction = false;
        }
        else if (typeof validateOperation == 'function') {
            validateOperation(operation, 0, document, existingPathFragment);
        }
        else 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');
        }
        else if (indexOf(value) !== -1) {
            return null;
        }
        else {
            throw new exports.JsonPatchError('Expected an unsigned base-10 integer value, making the new referenced value the array element with the zero-based index');
        }
    }
}
```

returnValue;
        } else {
            if (key && key.indexOf('~') !== -1) {
                var key = helpers_1.unescapePathComponent(key);
            }
            else {
                if (key && key.indexOf('~') !== -1) {
                    key = helpers_1.unescapePathComponent(key);
                }
                if (t >= len) {
                    var returnValue = objOps[operation.op].call(operation, obj, key, document); // Apply patch
                    if (returnValue.test === false) {
                        throw new exports.JsonPatchError("Test operation failed", 'TEST_OPERATION_FAILED', index, operation, document);
                    }
                    return returnValue;
                }
            }
            obj = obj[key];
        }
    }
}
exports.applyOperation = applyOperation;
/**
 * Apply a full JSON Patch array on a JSON document.
 * Returns the `{newDocument, result}` of the patch.
 * It modifies the `document` object and `patch` - it gets the values by reference.
 * If you would like to avoid touching your values, clone them:
 */
function applyPatch(document, patch, validateOperation, mutateDocument, banPrototypeModifications) {
    if (mutateDocument === void 0) { mutateDocument = true; }
    if (banPrototypeModifications === void 0) { banPrototypeModifications = true; }
    if (validateOperation) {
        if (!Array.isArray(patch)) {
            throw new exports.JsonPatchError('Patch sequence must be an array', 'SEQUENCE_NOT_AN_ARRAY');
        }
    }
    if (!mutateDocument) {
        document = helpers_1._deepClone(document);
    }
    var results = new Array(patch.length);
    for (var i = 0, length_1 = patch.length; i < length_1; i++) {
        // we don't need to pass mutateDocument argument because if it was true,
        // we already deep cloned the object, we'll just pass `true` and results[i] = applyOperation(document, patch[i], validateOperation, true, banPrototypeModifications)
        if (validateOperation) {
            if (validateOperation) {
                var operationResult = applyOperation(document, patch[i], validateOperation, true, banPrototypeModifications, i);
                document = operationResult.newDocument; // in case root was replaced
            }
            results[i] = operationResult;
        }
        document = results[i].newDocument; // in case root was replaced
    }
    results.newDocument = document;
    return results;
}
exports.applyPatch = applyPatch;
/**
 * Apply a single JSON Patch Operation on a JSON document.
 * Returns the updated document.
 * Suitable as a reducer.
 * @param document The document to patch
 * @param operation The operation to apply
 * @return The updated document
 */
function applyReducer(document, operation, index) {
    var operationResult = applyOperation(document, operation);
    if (operationResult.test === false) {
        throw new exports.JsonPatchError("Test operation failed", 'TEST_OPERATION_FAILED', index, operation, document);
    }
    return operationResult;
}
exports.applyReducer = applyReducer;
/**
 * Validates a single operation. Called from `jsonpatch.validate`. Throws `JsonPatchError`
 * in case of an error.
 * @param operation - operation object (patch)
 * @param index - index of operation in the sequence
 * @param document - object where the operation is supposed to be applied
 * @param existingPathFragment - comes along with `document`
 * @return true if validation was successful, false otherwise
 */
function validator(operation, index, document, existingPathFragment) {
    if (typeof operation !== 'object' || operation === null || Array.isArray(operation)) {
        throw new exports.JsonPatchError('Operation is not an object', 'OPERATION_NOT_AN_OBJECT', index, operation, document);
    }
    else if (!objOps[operation.op]) {
        throw new exports.JsonPatchError('Operation `op` property is not one of operations defined in RFC-6902', 'OPERATION_OP_INVALID', index, operation, document);
    }
    else if (typeof operation.path !== 'string') {
        throw new exports.JsonPatchError('Operation `path` property is not a string', 'OPERATION_PATH_INVALID', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_FROM_REQUIRED', index, operation, document);
    }
    else if (typeof operation.from !== 'string') {
        throw new exports.JsonPatchError('Operation `from` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_FROM_REQUIRED', index, operation, document);
    }
    else if ((operation.op === 'move' || operation.op === 'copy') && typeof operation.from !== 'string') {
        throw new exports.JsonPatchError('Operation `from` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_FROM_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.path !== 'string') {
        throw new exports.JsonPatchError('Operation `path` property is not a string', 'OPERATION_PATH_INVALID', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
        throw new exports.JsonPatchError('Operation `to` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_TO_REQUIRED', index, operation, document);
    }
    else if (typeof operation.value !== 'string') {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    }
    else if (typeof operation.to !== 'string') {
present (applicable in ‘add’, ‘replace’ and ‘test’ operations), ‘OPERATION_VALUE_REQUIRED’, index, operation, document);

else if ((operation.op === ‘add’) || (operation.op === ‘replace’) || operation.op === ‘test’)
    && helpersInputLabel(operation, value)) throw new exports.JsonPatchError(‘Operation ‘value’ property is not present (applicable in ‘add’, ‘replace’ and ‘test’ operations),

‘OPERATION_VALUE_CANNOT_CONTAIN_UNDEFINED’, index, operation, document);

else if (document)
    var pathLen = operation.path.split(‘/’).length;

var existingPathLen = existingPathFragment.split(‘/’).length;

if (pathLen !== existingPathLen + 1 && pathLen !== existingPathLen)
    throw new exports.JsonPatchError(‘Cannot perform an ‘add’ operation at the desired path’, ‘OPERATION_PATH_CANNOT_ADD’, index, operation, document);

else if (document)
    if (operation.path !== existingPathFragment)
        throw new exports.JsonPatchError(‘Cannot perform the operation at a path that does not exist’, ‘OPERATION_PATH_UNRESOLVABLE’, index, operation, document);

else if (operation.op === ‘move’ || operation.op === ‘copy’)
    var existingValue = { op: ‘_get’, path: operation.from, value: undefined };

var error = validate([existingValue], document);

if (error && error.name === ‘OPERATION_PATH_UNRESOLVABLE’) throw new exports.JsonPatchError(‘Cannot perform the operation from a path that does not exist’, ‘OPERATION_FROM_UNRESOLVABLE’, index, operation, document);

applyPatch(helpers_1._deepClone(document), helpers_1._deepClone(sequence), externalValidator || true);

for (var i = 0; i < sequence.length; i++)
    externalValidator(sequence[i], i, document, undefined);

}

try {

if (!Array.isArray(sequence))
    throw new exports.JsonPatchError(‘Patch sequence must be an array’, ‘SEQUENCE_NOT_AN_ARRAY’);

for (var i = 0; i < sequence.length; i++)
    externalValidator(sequence[i], i, document, undefined);

}

catch (e) {

if (e instanceof exports.JsonPatchError)
    return e;

else {
    throw e;
}

}

}
authorized.delete(auth)  

[CONFIGURE_AUTH]: (state, { payload }) => {
  return state.set("authorized", result)  
}

WEBPACK FOOTER //n// ../src/core/plugins/auth/reducers.js", "import { createSelector } from \"react-select\"}
import { List, Map } from \"immutable\"  

import { Map } from \"immutable\"  

const state = state => state

export const shownDefinitions = createSelector(state, auth => auth.get("showDefinitions") || List())

export const definitions = createSelector(auth => auth, ({ specSelectors }) => {
  let definitions = specSelectors.securityDefinitions() || Map()

  definitions.forEach((key, val) => {
    let map = Map()

    map = map.set(key, val)
    list = list.push(map)
  })

  return list
})

export const getDefinitionsByNames = (state, securities) => ({ authSelectors }) => {
  let securityDefinitions = specSelectors.securityDefinitions()
  let result = List()

  securities.forEach((names) => {
    let map = Map()
    names.forEach((name, scopes) => {
      let definition = securityDefinitions.get(name)
      let allowedScopes

      if (definition.get("type") === "oauth2" && scopes.size) {
        allowedScopes = definition.get("scopes")

        allowedScopes.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 authorized = createSelector(state, auth => auth.get("authorized") || Map())

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 || !!authorized.get(key)
    }).indexOf(false) === -1
  }).length
}

// WEBPACK FOOTER //n// ../src/core/plugins/auth/reducers.js", 

WEBPACK FOOTER //n// ../src/core/plugins/auth/reducers.js"}}

URL(url) | } else {ln // legacy browser, use <a href> to parse the URL
specUrl = document.createElement("a")
specUrl.href = url | }ln if(specUrl.protocol !== "https") &
win.location.protocol === "https") | {ln const error = Object.assign(ln new Error("Possible mixed-content issue! The page was loaded over https:// but a %s// URL was specified. Check that you are not attempting to load mixed content.");ln | }ln errActions.newThrownErr(error) | return
ln | }ln if(specUrl.origin !== win.location.origin) {
ln const error = Object.assign(ln new Error("Possible cross-origin (CORS) issue? The URL origin (%s) does not match the page (%s). Check the server returns the correct 'Access-Control-Allow-*' headers.");ln | }ln createSelector(ln state => {ln return state || Map() });ln ln spec => spec.get("loadingStatus") || null);
ln | }ln let selectors = {ln loadingStatus: state => {
ln return state || Map()
ln },
ln spec => spec.get("loadingStatus")
ln | | }ln WEBPACK FOOTER //
ln | | | }ln WEBPACK FOOTER //
original...args)

if (!getConfigs().deepLinking) {
  return
}

try {
  let [tokenArray, shown] = args

  if (!getConfigs().deepLinking) {
    return
  }

  try {
    let [tokenArray, shown] = args
      // Convert into something we can put in the URL hash
      // Or return empty, if we cannot
    const urlHashArray = layoutSelectors.urlHashArrayFromIsShownKey(tokenArray)
      // Will convert it
      // No hash friendly list?
    if (!urlHashArray.length) return

    const [type, assetName] = urlHashArray
      // only if (shown)
    if (!shown) {
      setHash("/")
    }

    if (urlHashArray.length === 2) {
      setHash(createDeepLinkPath(`/${encodeURIComponent(type)}/${encodeURIComponent(assetName)}`))
    } else if (urlHashArray.length === 1) {
      setHash(createDeepLinkPath(`/${encodeURIComponent(type)}`))
    }
  }
}

try {
  catch (e) {
    // This functionality is not mission critical, so if something goes wrong
    // we'll just move on
    console.error(e) // eslint-disable-line no-console
  }
}

export const scrollTo = (path) => {
  return {
    type: SCROLL_TO,
    payload: Array.isArray(path) ? path : [path]
  }
}

export const parseDeepLinkHash = (rawHash) => ({ layoutActions, layoutSelectors, getConfigs }) => {

  if (!getConfigs().deepLinking) {
    return
  }

  if (rawHash) {
    let hash = rawHash.slice(1) // # is first character

        // Parse UI 2.x shebangs
    hash = hash.slice(1) // hash.slice(1)
      // Convert into
    // something we can put in the URL hash
    // Or return empty, if we cannot
    const urlHashArray = layoutSelectors.urlHashArrayFromIsShownKey(tokenArray)

    // No hash friendly list?
    if (!urlHashArray.length) return

    const [type, tagId = ", maybeOperationId = "]

    if (type === ", operations") {
      // we're going to show an operation, so we need to
      // expand the tag as well
      const tagIsShownKey = layoutSelectors.isShownKeyFromUrlHashArray([tagId])

        // If an `_` is present, trigger the legacy escaping behavior to be safe
        // TODO: remove this in v4.0, it is deprecated in if (tagId.indexOf(_`) > -1) {
          console.warn("Warning: escaping deep link whitespaces with `_` will be unsupported in v4.0, use ",20 instead.

        // Scroll to the newly expanded entity
      layoutActions.show(isShownKey, map => val => val.replace(/_/g, " "), true) ||
      layoutActions.show(isShownKey, true)

      // Scroll to \vref\” (dom node) with the scrollbar on \"container\” or the nearest parent\nexcept const scrollToElement = (ref, container) => {

        // From: https://stackoverflow.com/a/42543908/3933724
        // Modified to return html instead of body element as last resort
      function getScrollParent(element, includeHidden) {
        const LAST_RESORT = document.documentElement
        let style = getComputedStyle(element)

        // const excludeStaticParent = style.position === "absolute"
        const overflowRegex = includeHidden ? /(auto|scroll|hidden)/ : /(auto|scroll)/

        if (style.position === "fixed")
          return LAST_RESORT
        for (let parent = element; (parent = parent.parentElement);)

          if (excludeStaticParent && style.position === "static")
            continue

          if (overflowRegex.test(style.overflow + style.overflowY + style.overflowX))
            return parent

          return LAST_RESORT

        return LAST_RESORT
      }
    }

    if (shown) {
      layoutActions.show(isShownKey, true) ||
      layoutActions.show(isShownKey, true)

      // Scroll to \vref\” (dom node) with the scrollbar on \"container\” or the nearest parent\nexcept const
scrollToElement = (ref, container) => {
  (ref, container) => {
    (system) => {
      try {
        container = container ||
        scrollToElement(ref, container)
      } catch (e) {
        console.error(e) // eslint-disable-line no-console
      }
    }
  }
}

export default {
  fn: {
    getScrollParent,
  },
  statePlugins: {
    layout: {
      actions: {
        scrollToElement,
        scrollTo,
        clearScrollTo,
        readyToScroll,
      },
      selectors: {
        getScrollToKey(state) {
          return state.get("scrollToKey")
        },
        isShownKeyFromUrlHashArray(state, urlHashArray) {
          const [tag, operationId] = urlHashArray
          // We only put operations in the URL
          if (operationId) {
"}
  ```
[\"operations\", tag, operationId]\n
} else if (tag) {\n
return [\"operations-tag\", tag]\n
}\n
return []\n
},\n
urlHashArrayFromIsShownKey(state, isShownKey) {\n
let [type, tag, operationId] =
isShownKey\n
// We only put operations in the URL\n
if(type == \"operations\") {\n
return [tag,
operationId]\n
} else if (type == \"operations-tag\") {\n
return [tag]\n
}\n
return []\n
},\n
},\n reducers: {\n
[SCROLL_TO](state, action) {\n
return state.set(\"scrollToKey\",
Im.fromJS(action.payload))\n
},\n
[CLEAR_SCROLL_TO](state) {\n
return
state.delete(\"scrollToKey\")\n
}\n
},\n
wrapActions: {\n
show\n
}\n }\n }\n}\n\n\n\n//
WEBPACK FOOTER //\n// ./src/core/plugins/deep-linking/layout.js","export const setHash = (value) => {\n
if(value) {\n return history.pushState(null, null, `#${value}`)\n } else {\n return window.location.hash = \"\"\n
}\n}\n\n\n\n// WEBPACK FOOTER //\n// ./src/core/plugins/deep-linking/helpers.js","import React from
\"react\"\nimport ImPropTypes from \"react-immutable-proptypes\"\n\nconst Wrapper = (Ori, system) => class
OperationWrapper extends React.Component {\n\n static propTypes = {\n operation:
ImPropTypes.map.isRequired,\n }\n\n onLoad = (ref) => {\n const { operation } = this.props\n const { tag,
operationId } = operation.toObject()\n const isShownKey = [\"operations\", tag, operationId]\n
system.layoutActions.readyToScroll(isShownKey, ref)\n }\n\n render() {\n return (\n
<span
ref={this.onLoad}>\n
<Ori {...this.props} />\n
</span>\n )\n }\n}\n\nexport default Wrapper\n\n\n\n//
WEBPACK FOOTER //\n// ./src/core/plugins/deep-linking/operation-wrapper.jsx","import React from
\"react\"\nimport { PropTypes } from \"prop-types\"\n\nconst Wrapper = (Ori, system) => class
OperationTagWrapper extends React.Component {\n\n static propTypes = {\n tag:
PropTypes.object.isRequired,\n }\n\n onLoad = (ref) => {\n const { tag } = this.props\n const isShownKey =
[\"operations-tag\", tag]\n system.layoutActions.readyToScroll(isShownKey, ref)\n }\n\n render() {\n return (\n
<span ref={this.onLoad}>\n
<Ori {...this.props} />\n
</span>\n )\n }\n}\n\nexport default
Wrapper\n\n\n\n// WEBPACK FOOTER //\n// ./src/core/plugins/deep-linking/operation-tag-wrapper.jsx","import
opsFilter from \"./opsFilter\"\n\nexport default function() {\n return {\n fn: {\n
opsFilter\n }\n }\n}\n\n\n\n//
WEBPACK FOOTER //\n// ./src/core/plugins/filter/index.js","export default function(taggedOps, phrase) {\n return
taggedOps.filter((tagObj, tag) => tag.indexOf(phrase) !== -1)\n}\n\n\n\n// WEBPACK FOOTER //\n//
./src/core/plugins/filter/opsFilter.js","let engaged = false\n\nexport default function() {\n\n return {\n statePlugins:
{\n
spec: {\n
wrapActions: {\n
updateSpec: (ori) => (...args) => {\n
engaged = true\n
return ori(...args)\n
},\n
updateJsonSpec: (ori, system) => (...args) => {\n
const cb =
system.getConfigs().onComplete\n
if(engaged && typeof cb === \"function\") {\n
// call
`onComplete` on next tick, which allows React to\n
// reconcile the DOM before we notify the user\n
setTimeout(cb, 0)\n
engaged = false\n
}\n\n
return ori(...args)\n
}\n
}\n }\n }\n
}\n}\n\n\n\n// WEBPACK FOOTER //\n// ./src/core/plugins/on-complete/index.js","module.exports =
\"data:image/svg+xml;base64,PHN2ZyB3aWR0aD0iMjAwcHgiICBoZWlnaHQ9IjIwMHB4IiAgeG1sbnM9Imh0d
HA6Ly93d3cudzMub3JnLzIwMDAvc3ZnIiB2aWV3Qm94PSIwIDAgMTAwIDEwMCIgcHJlc2VydmVBc3BlY3R
SYXRpbz0ieE1pZFlNaWQiIGNsYXNzPSJsZHMtcm9sbGluZyIgc3R5bGU9ImJhY2tncm91bmQtaW1hZ2U6IG5v
bmU7IGJhY2tncm91bmQtcG9zaXRpb246IGluaXRpYWwgaW5pdGlhbDsgYmFja2dyb3VuZC1yZXBlYXQ6IGlu
aXRpYWwgaW5pdGlhbDsiPjxjaXJjbGUgY3g9IjUwIiBjeT0iNTAiIGZpbGw9Im5vbmUiIG5nLWF0dHItc3Ryb2tl
PSJ7e2NvbmZpZy5jb2xvcn19IiBuZy1hdHRyLXN0cm9rZS13aWR0aD0ie3tjb25maWcud2lkdGh9fSIgbmctYXR0
ci1yPSJ7e2NvbmZpZy5yYWRpdXN9fSIgbmctYXR0ci1zdHJva2UtZGFzaGFycmF5PSJ7e2NvbmZpZy5kYXNoY
XJyYXl9fSIgc3Ryb2tlPSIjNTU1NTU1IiBzdHJva2Utd2lkdGg9IjEwIiByPSIzNSIgc3Ryb2tlLWRhc2hhcnJheT0iM
TY0LjkzMzYxNDMxMzQ2NDE1IDU2Ljk3Nzg3MTQzNzgyMTM4Ij48YW5pbWF0ZVRyYW5zZm9ybSBhdHR
yaWJ1dGVOYW1lPSJ0cmFuc2Zvcm0iIHR5cGU9InJvdGF0ZSIgY2FsY01vZGU9ImxpbmVhciIgdmFsdWVzPSI
wIDUwIDUwOzM2MCA1MCA1MCIga2V5VGltZXM9IjA7MSIgZHVyPSIxcyIgYmVnaW49IjBzIiByZXBlYXR
Db3VudD0iaW5kZWZpbml0ZSI+PC9hbmltYXRlVHJhbnNmb3JtPjwvY2lyY2xlPjwvc3ZnPgo=\"\n\n\n///////////////
///\n// WEBPACK FOOTER\n// ./src/img/rolling-load.svg\n// module id = 416\n// module chunks = 0","import
React from \"react\"\nimport PropTypes from \"prop-types\"\n\nfunction xclass(...args) {\n return args.filter(a =>
!!a).join(\" \").trim()\n}\n\nexport class Container extends React.Component {\n render() {\n let { fullscreen, full,

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...
= pos;
max = state.posMax;

define if (state.src.charCodeAt(pos) === 0x3C /* < */) {
  pos++;
  max = state.posMax;
}

if (code === 0x0A /* \n */) { return false; }

if (code === 0x09 /* \ */) {
  if (code === 0x0A /* \n */) { return false; }
  state.pos += 2;
  continue;
}

if (code === 0x5C /* \ */) { pos += 2; continue; }

if (code === 0x28 /* ( */) {
  level++;
  if (level > 1) { break; }
}

if (code === 0x29 /* ) */) {
  level--;
  if (level < 0) { break; }
}

pos++;

// no closing '>' return false;

if (state.src.charCodeAt(pos) === 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;
}

// 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 += 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;
  return true;
};


//////////////////
// WEBPACK FOOTER
// module id = 422
// module chunks = 0

var replaceEntities = require('../common/utils').replaceEntities;

module.exports = function normalizeLink(url) {
  var normalized = replaceEntities(url);
  // We shouldn't care about the result of malformed
  // URIs,
  // and should not throw an error.
  try {
    normalized = decodeURI(normalized);
  } catch (err) {
    return err;
  }
  return encodeURI(normalized);
};


//////////////////
// WEBPACK FOOTER
// module id = 423
// module chunks = 0

var unescapeMd = require('../common/utils').unescapeMd;

/**
 * Parse link title
 *
 *   - on success it returns a string and updates state.pos;
 *   - on failure it returns null
 * @param  {Object} state
 * @param  {Number} pos
 * @api private
 */

module.exports = function parseLinkTitle(state, pos) {
  var code,
      start = pos,
      max = state.posMax,
      marker = state.src.charCodeAt(pos);

  if (marker !== 0x22 /* " */ && marker !== 0x27 /* ' */ && marker !== 0x28 /* ( */) { return false; }

  pos++;

  // if opening marker is "(" switch it to closing marker ")"
  if (marker === 0x28) { marker = 0x29; }

  while (pos < max) {
    code = state.src.charCodeAt(pos);
    if (code === marker) {
      state.pos = pos + 1;
      state.linkContent = unescapeMd(state.src.slice(start + 1, pos));
      return true;
    }
    if (code === 0x5C /* \ */) { pos += 2; continue; }

    pos++;
  }

  return false;
};


//////////////////
// WEBPACK FOOTER
// module id = 424
// module chunks = 0

var trim = require('lodash').trim;

var replaceEntities = require('../common/utils').replaceEntities;

module.exports = function normalizeReference(str) {
  // use .toUpperCase() instead of .toLowerCase()
  // here to avoid a conflict with Object.prototype.toString
  // members (most notably, __proto__).

  return str.trim().replace(/\s+/g, ' ').toUpperCase();
};


// WEBPACK FOOTER //
spec => spec.get("resolved"), Map() || undefined, const spec = state => {
  let res = specResolved(state) || if(res.count() < 1) res = specJson(state) || return res
  return res || Map() || undefined
}

// Wrappers

export const onlyOAS3 = createSelector(state, spec => {
  const res = spec.getIn("components") || Map()
  return res
})

// New selectors

export const servers = onlyOAS3(createSelector(state, spec => {
  return spec.getIn("servers") || Map()
}))

export const isOAS3 = (ori, system) => () => {
  return onlyOAS3(ori, system)
}

// WEBPACK FOOTER //
// ./src/core/plugins/oas3/spec-extensions/wrap-selectors.js
import React from 'react'
import PropTypes from 'prop-types'
import ImPropTypes from 'react-immutable-proptypes'
import { fromJS } from 'immutable'

const Callbacks = (props) => {
  let { callbacks, getComponent, specPath } = props
  // const Markdown = getComponent('Markdown')
  const OperationContainer = getComponent('OperationContainer', true)

  if(!callbacks) {
    return <span>No callbacks</span>
  }

  let callbackElements = callbacks.map((callback, callbackName) => {
    return <div key={callbackName}>
      <h2>{callbackName}</h2>
      {
        callback.map((pathItem, pathItemName) => {
          if(pathItemName === "$$ref") {
            return null
          }
          return <div key={pathItemName}>
            { pathItem.map((operation, method) => {
              if(method === "$$ref") {
                return null
              }
            return <OperationContainer
              {...props}
              op={fromJS({
              operation
            })
            return <PreferenceContainer
              {...props}
              path={pathItemName}
              specPath={specPath.push(callbackName, pathItemName, method)}
              allowTryItOut={false}
              />
          }) }
        </div>
      }) }
    </div>
  })
  return <div>
    {callbackElements}
  </div>
}

Callbacks.propTypes = {
  getComponent: PropTypes.func.isRequired,
  callbacks: ImPropTypes.iterable.isRequired,
  specPath: ImPropTypes.list.isRequired,
}

export default Callbacks


import React from 'react'
import PropTypes from 'prop-types'
import ImPropTypes from 'react-immutable-proptypes'
import { Map, OrderedMap, List } from 'immutable'
import { getCommonExtensions, getSampleSchema, stringify } from 'core/utils'

function getDefaultRequestBodyValue(requestBody, mediaType, activeExamplesKey) {
  let mediaTypeValue = requestBody.getIn(["content", mediaType])
  let schema = mediaTypeValue.get("schema").toJS()
  let example = mediaTypeValue.get("example") !== undefined
    ? stringify(mediaTypeValue.get("example"))
    : null
  let currentExamplesValue = mediaTypeValue.getIn(["examples", 
    activeExamplesKey,
    "value"
  ]) || if (mediaTypeValue.get("examples")) {
    // the media type DOES have examples
    return stringyify(currentExamplesValue) || ""
  } else {
    // the media type DOES NOT have examples
    return stringyify(example ||
      getSampleSchema(schema, mediaType, {
        includeWriteOnly: true
      }) ||
      ""
    )
  }
  return <div>
    {callbackElements}
  </div>
}


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()) || if (mediaTypeValue.get("schema", OrderedMap())) {
    const MediaType = getComponent('MediaType')
    const MediaTypeEditor = getComponent('MediaTypeEditor')
    const HighlightCode = getComponent('highlightCode')
    const MediaTypeSelectValueRetainer = getComponent('MediaTypeSelectValueRetainer')
    const MediaType = getComponent('MediaType')
    const MediaTypeEditor = getComponent('MediaTypeEditor')
    const HighlightCode = getComponent('highlightCode')
    const MediaTypeSelectValueRetainer = getComponent('MediaTypeSelectValueRetainer')
  }
  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>
      </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 required = requestBodyDescription &&
  <tr className="parameters" data-property-name={key}>
    <td className="parameters-col_name">
      <span style={{color: 
        <td className="parameters-col_name">
        <div className="parameter__name">
          { key }
          { !required ? null : <span style={{color: "red"}}>&nbsp;*</span> }
        </div>
        </td>
      </td>
    <td className="parameters-col_description">
      <Markdown source={description} />
      <div>
        <JsonSchemaForm
          fn={fn}
          dispatchInitialValue={!isFile}
          schema={prop}
          getComponent={getComponent}
          value={currentValue === undefined ? initialValue : currentValue}
          onChange={(value) => {
            onChange(value, [key])
          }}
        /></div>
      </td>
    </tr>
  </tbody>
</table>

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}
      />
    ) : (
      <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>

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,
  contentType: PropTypes.string.isRequired,
  isExecute: PropTypes.bool.isRequired,
  onChange: PropTypes.func.isRequired,
  specPath: PropTypes.array.isRequired,
  activeExamplesKey: null
}`
PropTypes.string,
  updateActiveExamplesKey: PropTypes.func,

 export default RequestBody


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 description = link.get("description")
    let targetOp = link.get("operationId") || link.get("operationRef")
    let parameters = link.get("parameters")
    let description = link.get("description")
    let source = description
    </Markdown>: null
    }<div style={{ marginBottom: "1.5em" }}><div style={{ marginBottom: "0.5em" }}><b><code>{name}</code></b>{ description ? <Markdown source={description}></Markdown> : null }
</div>
<pre>
Operation `{targetOp}`
Parameters {padString(0, JSON.stringify(parameters, null, 2))) || "{}"}<br />
</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


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") || OrderedMap()

      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) {
          this.props.setServerVariableValue({
            server: nextProps.currentServer,
            key: key,
            val: val.get("default") || ""
          })
        }
      })
    }
  }

  onServerChange = (e) => {
    this.setServer(e.target.value)

    // set default variable values
  }

  onServerVariableValueChange = (e) => {
    let {
      setServerVariableValue,
      currentServer
    } = this.props

    let variableName = e.target.getAttribute("data-variable")
    let newVariableValue = e.target.value

    if(typeof setServerVariableValue === "function") {
      setServerVariableValue({
        server: currentServer,
        key: variableName,
        val: newVariableValue
      })
    }
  }

  setServer = (value) => {
    let { setSelectedServer } = this.props

    setSelectedServer(value)
  }

  render() {
    let {
      servers,
      currentServer,
      getServerVariable,
      getEffectiveServerValue
    } = this.props

    let currentServerDefinition = servers
      .find(v => v.get("url") === currentServer)

    let currentServerVariableDefs = currentServerDefinition.get("variables") || OrderedMap()

    let shouldShowVariableUI = currentServerVariableDefs.size

    return <div className="servers">
      <label htmlFor="servers">
        Computed URL:
        <code>{getEffectiveServerValue(currentServer)}</code>
      </label>
    </div>
  }

  shouldShowVariableUI = (key) => {
    return
  }

  render() {
    return <div className="computed-url">
      Computed URL:
      <code>{getEffectiveServerValue()}</code>
    </div>
  }

  <h4>Server variables</h4>
  <table>
    <tbody>
      <tr><th>Key</th><th>Value</th></tr>
      </tbody>
    </table>
  </body>
</div>
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 => {
            selected={enumValue === getServerVariable(currentServer, name)}
            key={enumValue}
            value={enumValue}>
              {enumValue}
          })}
        </select> :
        <input
          type="text"
          value={getServerVariable(currentServer, name) || ""}
          onChange={this.onServerVariableValueChange}
          data-variable={name}
        ></input>
      }
    </td>
  </tr>
});
</tbody>
</table>
</div>: null
}
</div>
</div>
</div>
// WEBPACK FOOTER //
// ./src/core/plugins/oas3/components/servers.jsx

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/request-body-editor.jsx

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:
      })
    }
    !this.state.value) {
      if(this.props.value !==
        this.nextProps.value &&
        this.nextProps.value !== this.state.value
      ) {
        this.setState({
          value:
        })
      }
    }
  }

  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>
    )

  }
}
value
    }
  }

  getValue () {
    let { name, authorized } = this.props
    let newValue = this.state.value
    let value = newValue
    if (name) {
      let newAuthorized = isAuthorized(newValue)
      this.setState(
        { value: newValue, authorized: newAuthorized }, () =>
      )
    }
  }

  onChange =(e) => {
    let { onChange } = this.props
    let { value, name } = e.target
    let newValue = Object.assign({}, this.state.value)
    if (name) {
      newValue[name] = value
    } else {
      newValue = value
    }
    this.setState({ value: newValue }, () => onChange(this.state))
  }

  render() {
    let { schema, getComponent, errSelectors, name } = this.props
    const Input = getComponent("Input")
    const Row = getComponent("Row")
    const Col = getComponent("Col")
    const AuthError = getComponent("authError")
    const RowError = getComponent("rowError")
    const Markdown = getComponent("Markdown")
    const JumpToPath = getComponent("JumpToPath")

    let scheme = schema.get("scheme") || "";
    let name = name || schema.get("name")
    let value = this.getValue()
    let errors = errSelectors.allErrors().filter((error) => error.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" name="username" onChange={ this.onChange }/></Col>
        }
        </Row>
        <Row>
          <label>Password:</label>
          { username ? 
            <code> ****** </code>
          : 
            <Col><Input type="password" name="password" onChange={ this.onChange }/></Col>
        }
        </Row>
        { errors.valueSeq().map((error, key) => (<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>
        { 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 }/>

        </Row>
        { errors.valueSeq().map((error, key) => (<AuthError error={ error }
        key={ key }/>
        )
        }
      </div>
    )
    return (<div>
      <em><b>{name}</b> HTTP authentication: unsupported scheme `{scheme}`
    </em>
  )
}

import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

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,
    getComponent: PropTypes.func.isRequired
  }

  setSelectedServer = (server) => {
    const { path, method } = this.props
    return this.props.setSelectedServer(server, `${path}:${method}`)
  }

  setServerVariableValue = (obj) => {
    const { path, method } = this.props
    return this.props.setServerVariableValue({
      ...obj,
      namespace: `${path}:${method}`
    })
  }

  getSelectedServer = () => {
    const { path } = this.props
    return this.props.getSelectedServer(`${path}:${method}`)
  }

  getServerVariable = (server) => {
    const { path, method } = this.props
    return this.props.getServerVariable(server, `${path}:${method}`)
  }

  getEffectiveServerValue = (server) => {
    const { path, method } = this.props
    return this.props.getEffectiveServerValue(server, `${path}:${method}`)
  }

  render() {
    return (<div>
      <em><b>{name}</b> HTTP authentication: unsupported scheme `{scheme}`
    </em>
  )
}
if(!operationServers &amp;&amp; !pathServers) { return null; }
const Servers = getComponent('Servers');
const serversToDisplay = operationServers || pathServers;
const displaying = operationServers ? 'operation' : 'path';

return <div class="opblock-section operation-servers">
  <div class="opblock-section-header">
    <div class="tab-header">
      <h4 class="opblock-title">Servers</h4>
    </div>
  </div>
  <div class="opblock-description-wrapper">
    <h4 class="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>
```javascript
message = null
if(isDeprecated) { in classes.push("deprecated") in message = <span className="model-deprecated-warning">Deprecated: </span> in 
} in
return <div className="classes.join(" ")"> in 
message < Model { ...this.props } in getConfigs={ getConfigs } in depth={ 1 } in 
expandDepth={ this.props.expandDepth } in depth={ 0 } in > in 
</div> in 
</Model>
}

export default OAS3ComponentWrapFactory(ModelComponent)

//WEBPACK FOOTER

```

```javascript
// WEBPACK FOOTER
```
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_REQUEST_CONTENT_TYPE]: (state, { payload: { value, pathMethod } }) => {
    let [path, method] = pathMethod
    return state.setIn( [ "requestData", path, method, "requestContentType" ], value )
  },
  [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 )
  }
}

// WEBPACK FOOTER //
// /src/core/plugins/oas3/reducers.js","import { pascalCaseFilename } from "core/utils"

const request = require.context(".", true, /\.jsx?$/)

request.keys().forEach( function( key ){
  if( key === './index.js' ) {
    return
  }

  let mod = request(key)
  module.exports[pascalCaseFilename(key)] = mod.default ? mod.default : mod
})

// WEBPACK FOOTER //
// ./src/core/plugins/all.js","import win from 'core/window'

if(typeof win.Promise === 'undefined') {
  require('core-js/fn/promise')
}

// Required by IE 11
if(!String.prototype.startsWith) {
  require('core-js/es6/string')
}

// WEBPACK FOOTER //
// ./src/polyfills.js","// Promise global, Used ( at least ) by 'whatwg-fetch'. And

// Required by IE 11

			

// WEBPACK FOOTER //
// ./node_modules/core-js/library/fn/get-iterator.js

module.exports = function () { /* empty */ }

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_add-to-unscopables.js
module.exports = function (Constructor, NAME, next) {
  Constructor.prototype = create(IteratorPrototype, { next: descriptor(1, next) });
  setToStringTag(Constructor, NAME + ' Iterator');
};

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_iter-create.js
module.exports = function (Constructor, NAME, next) {
  Constructor.prototype = create(IteratorPrototype, { next: descriptor(1, next) });
  setToStringTag(Constructor, NAME + ' Iterator');
};

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_iter-create.js
module.exports = function (Constructor, NAME, next) {
  Constructor.prototype = create(IteratorPrototype, { next: descriptor(1, next) });
  setToStringTag(Constructor, NAME + ' Iterator');
};

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_iter-create.js
module.exports = function (Constructor, NAME, next) {
  Constructor.prototype = create(IteratorPrototype, { next: descriptor(1, next) });
  setToStringTag(Constructor, NAME + ' Iterator');
};

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_iter-create.js
module.exports = function (Constructor, NAME, next) {
  Constructor.prototype = create(IteratorPrototype, { next: descriptor(1, next) });
  setToStringTag(Constructor, NAME + ' Iterator');
};
\`\`// eslint-disable-next-line no-self-compare
if (IS_INCLUDES && el != el) while (length > index) {  
  value = O[index++];
  // eslint-disable-next-line no-self-compare
  if (value != value) return true;
} else for (;length > index; index++) if (IS_INCLUDES || index in O) {
  if (O[index] === el) return IS_INCLUDES || index || 0;
}
\`\`
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25.4.5.3 Promise.prototype.then(onFulfilled, onRejected)
    then: function then(onFulfilled, onRejected) {
      var
  };
  Internal.prototype = require('./_redefine-all')($Promise.prototype, {
    // undefined;      // <- value
    this._h = 0;              // <- rejection state, 0 - default, 1 - handled, 2 - unhandled
    checked in isUnhandled reactions
    this._s = 0;              // <- state
    this._d = false;          // <- done
    this._v =
function Promise(executor) {
    this._c = [];             // <- awaiting reactions
    this._a = undefined;      // <- rejection state, 0 - default, 1 - handled, 2 - unhandled
    _n var i = 0; var run = function (reaction) {
      var handler = ok ? reaction.ok : reaction.fail;
      var resolve = reaction.resolve;
      var reject = reaction.reject;
      var domain = reaction.domain;
      var result, then,
= promise._c.slice();
  notify(promise, true);
};
var $resolve = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $reject = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $resolve = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $reject = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $resolve = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $reject = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $resolve = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $reject = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $resolve = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $reject = function (value) {
  var promise = this;
  var
    promise = promise._w || promise; // unwrap
  try {
    if
= promise._c.slice();
  notify(promise, true);
};
var $resolve = function (value) {
  var promise = this;
reaction = new PromiseCapability(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;
},
  // 25.4.5.1
Promise.prototype.catch(onRejected) = function (onRejected) {
  return this.then(undefined, onRejected);
}

OwnPromiseCapability = function () {
  var prom = new PromiseCapability(C);
  prom.promise = prom;
  prom.resolve = ctx($resolve, prom, 1);
  prom.reject = ctx($reject, prom, 1);
  return prom;
};

newPromiseCapabilityModule.f = newPromiseCapability = function (C) {
  return C === $Promise || C === Wrapper
    ? new OwnPromiseCapability(C)
    : newGenericPromiseCapability(C);
};

$export($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 $index = index++;
        var alreadyCalled = false;
        values[$index] = undefined;
        remaining++;
        C.resolve(promise).then(function (value) {
          if (alreadyCalled) return;
          alreadyCalled = true;
          values[$index] = value;
          --remaining || resolve(values);
        }, reject);
      });
      --remaining || resolve(values);
    });
    if (result.e) reject(result.v);
    return capability.promise;
  },
  // 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);
      });
    });
    if (result.e) reject(result.v);
    return capability.promise;
  }
});

module.exports = function (it, Constructor, name, forbiddenField) {
  if (!(it instanceof Constructor) ||
      forbiddenField !== undefined && forbiddenField in it) {
    throw TypeError(name + ': incorrect invocation!');
  }
  return it;
};

require('./_iter-detect')(function (iter) {
  $Promise.all(iter)['catch'](empty);
});

WEBPACK FOOTER

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Open Source Used In MSX SD-WAN Service Pack 4.0.0

/module id = 486
// https://github.com/tc39/proposal-promise-finally
var $export = require('./_export');
var core = require('./_core');
var global = require('./_global');
var speciesConstructor = require('./_species-constructor');
var promiseResolve = require('./_promise-resolve');
$export($export.P + $export.R, 'Promise', { 'finally': function (onFinally) { var C = speciesConstructor(this, core.Promise || global.Promise); var isFunction = typeof onFinally == 'function'; return promiseResolve(onFinally()); then(function (x) { return promiseResolve(onFinally()); }); } });

/module chunks = 0
"use strict";
var $export = require('./_export');
var newPromiseCapability = require('./_new-promise-capability');
var perform = require('./_perform');
$export($export.S, 'Promise', { 'try': function (callbackfn) { var promiseCapability = newPromiseCapability.f(this);
var result = perform(callbackfn);
if (result.e) promiseCapability.reject(result.v);
return promiseCapability.promise; } });

/module chunks = 0
require('../modules/es6.string.from-code-point');
require('../modules/es6.string.raw');
require('../modules/es6.string.trim');
require('../modules/es6.string.iterator');
require('../modules/es6.string.code-point-at');
require('../modules/es6.string.endsWith');
require('../modules/es6.string.includes');
require('../modules/es6.string.repeat');
require('../modules/es6.string.startsWith');
require('../modules/es6.string.anchors');
require('../modules/es6.string.bold');
require('../modules/es6.string.fixed');
require('../modules/es6.string.fontColor');
require('../modules/es6.string.fontSize');
require('../modules/es6.string.italics');
require('../modules/es6.string.link');
require('../modules/es6.string.text');
require('../modules/es6.string.html');
require('../modules/es6.string.text').raw;
null custom: {}, displayOperationId: false, displayRequestDuration: false, deepLinking: false, requestInterceptor: (a => a), responseInterceptor: (a => a), showMutatedRequest: true, defaultModelRendering: "example", defaultModelExpandDepth: 1, defaultModelsExpandDepth: 1, showExtensions: false, showCommonExtensions: undefined, supportedSubmitMethods: ["get", "put", "post", "delete", "options", "head", "patch", "trace"], // Initial set of 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. presets: [ApisPreset ], plugins: ( loaded after presets ) plugins: [
  // Initial state
  initialState: { },
  // Inline Plugin fn: fn, components: { },
  let queryConfig = parseSearch()

  const domNode = opts.domNode delete opts.domNode const constructorConfig = deepExtend({}, defaults, opts, queryConfig) const storeConfigs = {
    system: constructorConfig.configs, 
    plugins: constructorConfig.presets, 
  }

  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.getSystem()

  if(constructorConfig.initialState) {
    // if the user sets a key as `undefined`, that signals to us that we shouldn't delete the key entirely. known usage: Swagger-Editor validate plugin tests for (var key in constructorConfig.initialState) {
      if(constructorConfig.initialState.hasOwnProperty(key) && constructorConfig.initialState[key] === undefined ) {
        delete storeConfigs.state[key]
      }
    }
    let inlinePlugin = () => {
      return { fn: constructorConfig.fn, components: constructorConfig.components, state: constructorConfig.state, } } }
    
    system.specSelectors.getLocalConfig ? system.specSelectors.getLocalConfig() : {}

    let mergedConfig = deepExtend({}, localConfig, constructorConfig, fetchedConfig || {}) system.specActions.updateUrl("") system.specActions.updateLoadingStatus("success")

    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
}

// Add


Open Source Used In MSX SD-WAN Service Pack 4.0.0
```javascript
$replacer.call(this, key, value);  
    };
      if (!isSymbol(value)) return value;
    };
    args[1] = replacer;
    return _stringify.apply($JSON, args);
  }
});

// 19.4.3.4
Symbol.prototype[@@toPrimitive](hint)  
$Symbol[PROTOTYPE][TO_PRIMITIVE] ||
require('./_hide')($Symbol[PROTOTYPE], TO_PRIMITIVE, $Symbol[PROTOTYPE].valueOf);
// 19.4.3.5
Symbol.prototype[@@toStringTag] = setToStringTag($Symbol, 'Symbol');
// 20.2.1.9
Math[@@toStringTag] = setToStringTag(Math, 'Math', true);

JSON[@@toStringTag] = setToStringTag(global.JSON, 'JSON', true);


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_enum-keys.js
// module id = 527
// module chunks = 0
require('./_wks-define')('asyncIterator');


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/es7.symbol.observable.js
// module id = 530
// module chunks = 0
'use strict'

exports.byteLength = byteLength
exports.toByteArray = toByteArray
exports.fromByteArray = fromByteArray

var lookup = []
var revLookup = []
var Arr = typeof Uint8Array !== 'undefined' ? Uint8Array : Array

var code = 'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/'
for (var i = 0, len = code.length; i < len; ++i) {
  lookup[i] = code[i]
  revLookup[code.charCodeAt(i)] = i
}

// Support decoding URL-safe base64 strings, as Node.js does.
// See: https://en.wikipedia.org/wiki/Base64#URL_applications
revLookup['-'.charCodeAt(0)] = 62
revLookup['_'.charCodeAt(0)] = 63

function getLens (b64) {
  var len = b64.length

  if (len % 4 > 0) {
    throw new Error('Invalid string. Length must be a multiple of 4')
  }

  // Trim off extra bytes after placeholder bytes are found
  // See: https://github.com/beatgammit/base64-js/issues/42
  var validLen = b64.indexOf('=')
  if (validLen === -1) validLen = len

  var placeHoldersLen = validLen === len
    ? 0
    : 4 - (validLen % 4)

  return [validLen, placeHoldersLen]
}

// base64 is 4/3 + up to two characters of the original data
function byteLength (b64) {
  var lens = getLens(b64)
  var validLen = lens[0]
  var placeHoldersLen = lens[1]

  var arr = 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 * 3 / 4 - placeHoldersLen

  if (placeHoldersLen > 0) {  
    validLen -= 4 - (validLen % 4)
    b64 = (b64.slice(0, validLen + placeHoldersLen) + '=='.slice(0, 4 - (validLen % 4)))
  }

  for (; i < len; ++i) {
    tmp = (arr[curByte++] = (tmp >> 6) & 0xFF)

    if (placeHoldersLen > i) {
      return placeHoldersLen * 3 / 4 - placeHoldersLen
    }

    var val = (i % 4) ? (i >> 2) : ((i >> 1) & 0x30) || 4

    var curByte += (val += 0)
  }
```
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
  }

  getBoundActions(dispatch) {

    dispatch = dispatch || this.getStore().dispatch

    const actions = this.getActions()

    const process = creator =>{
      if( typeof( creator ) !== "function" ) {
        return objMap(creator, prop => process(prop))
      }

      return ( ...args )=>{
        var action = null
        try{
          action = creator( ...args )
        }
        catch(e){
          action = {type: NEW_THROWN_ERR, error: true, payload: serializeError(e) }
        }
        finally{
          return action // eslint-disable-line no-unsafe-finally
        }
      }

    }
    return objMap(actions,
      actionCreator => bindActionCreators( process( actionCreator ), dispatch ) )
  }

  getMapStateToProps() {
    return () => {
      return Object.assign({}, this.getSystem())
    }
  }

  getMapDispatchToProps(extras) {
    return (dispatch) => {
      return deepExtend({}, this.getWrappedAndBoundActions(dispatch), this.getFn(), extras)
    }
  }
}

function combinePlugins(plugins, toolbox) {
  if(isObject(plugins) && !isArray(plugins)) {
    return assignDeep({}, plugins)
  }

  if(isFunc(plugins)) {
    return combinePlugins(plugins(toolbox), toolbox)
  }

  if(isArray(plugins)) {
    return plugins
      .map(plugin => combinePlugins(plugin, toolbox))
      .reduce(systemExtend, { })
  }

  return calledSomething
}

// Wraps deepExtend, to account
// for certain fields, being wrappers.
// We need to convert some fields into arrays, and append to them.
// Rather than overwrite function systemExtend(dest={}, src={}) {
//   // Modifies `src`
//   // Account for wrapActions, make it an array and append to it
//   // Modifies `src`
//   // 80% of this code is just safe traversal. We need to address that ( ie: use a lib )
//   const dest = Object.assign({}, src)
//   for(let fieldName in dest) {
//     if(isObject(dest[fieldName]) && !isObject(dest[fieldName].wrapComponents)) {
//       dest[fieldName].wrapComponents = []
//     }
//     // but a higher recursive `combinePlugins` call will be able to handle it
//     delete src.wrapComponents[fieldName]
//   }
//   // Account for wrapActions, make it an array and append to it
//   // Modifies `src`
//   // for(let functionName in wrapActions) {
//   //   let action = wrapActions[functionName]
//   //   if(isObject(action) && !isFunc(action)) {
//   //     action = [action]
//   //   }
//   //   if(src && src.statePlugins && src.statePlugins[namespace] && src.statePlugins[namespace].wrapActions) {
//   //     src.statePlugins[namespace].wrapActions[functionName] = action // Put the value inside an array
//   //   }
//   // }
//   return dest
// }

// Wraps deepExtend, to account for certain fields, being wrappers.
// We need to convert some fields into arrays, and append to them.
// Rather than overwrite function systemExtend(dest={}, src={}) {
//   // Modifies `src`
//   // Account for wrapActions, make it an array and append to it
//   // Modifies `src`
```javascript

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
}

```

---

This is a part of a larger code snippet that seems to be related to a web framework or a library. It includes various functions for managing and executing reducers in a system, handling errors, and configuring a store. The context suggests it is part of a larger system, possibly related to a service or a suite of services managing some sort of data or state.

---

This code is used in the MSX SD-WAN Service Pack 4.0.0, indicating it is part of a larger software suite or toolkit. The snippet includes error handling, function composition, and state management, typical of modern front-end or middleware code. The copyright notice indicates it was created and distributed by Facebook, Inc., with permissions under the MIT license. This is consistent with practices in open-source software development, where libraries and frameworks are released to encourage reuse and integration.
file in the root directory of this source tree.

```javascript
'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;
}

ForEachBookKeeping.prototype.destructor = function () {
  this.func = null;
  this.context = null;
  this.count = 0;
};
PooledClass.addPoolingTo(ForEachBookKeeping, twoArgumentPooler);

function forEachSingleChild(bookKeeping, child, name) {
  var func = bookKeeping.func;
  var 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
 * child.
 *
 * @param {?*} children Children tree
 * container.
 * @param {function(*, int)} forEachFunc
 * @param {*} forEachContext Context for
 * forEachContext.
 */
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 for
 * mapContext.
 */
function 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 mapSingleChildIntoContext(bookKeeping, child, childKey) {
  var result = bookKeeping.result,
      keyPrefix = bookKeeping.keyPrefix,
      func = bookKeeping.func;

  var escapedPrefix = '';
  if (keyPrefix != null) {
    escapedPrefix = escapeUserProvidedKey(keyPrefix) + '/';
  }

  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
 *
 * The
 * provided mapFunction(child, key, index) will be called for each
 * child.
 *
 * @param {?*} children
 * container.
 * @param {function(*, int)} mapFunction.
 * @param {*} mapContext
 * @return {object} Object containing the ordered map of results.
 */
function mapChildren(children, mapFunction, mapContext) {
  if (children == null) {
    return null;
  }
  var result = 
```
getIteratorFn = require('./getIteratorFn');

var invariant = require('fbjs/lib/invariant');

var KeyEscapeUtils = require('./KeyEscapeUtils');

var warning = require('fbjs/lib/warning');

var SEPARATOR = '.';

var SUBSEPARATOR = ':';

/**
 * Generate a key string that identifies a component within a set.
 * @param {*} component A component that could contain a manual key.
 * @param {number} index Index that is used if a manual key is not provided.
 * @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
  return index.toString(36);
}

/**
 * @param {?*} children
 * @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.
 * @return {!number} The number of children in this subtree.
 */

function traverseAllChildrenImpl(children, nameSoFar, callback, traverseContext) {
  var type = typeof children;

  if (type === 'undefined' || type === 'boolean') {
    children = null;
  }

  if (children === null || type === 'string' || type === 'number' ||
      // The following is inlined from ReactElement. This means we can optimize
      // some checks. React Fiber also inlines this logic for similar
      // purposes.
      type === 'object' && children.$$typeof === REACT_ELEMENT_TYPE) {
    // Set a flag if using Maps as children to add a warning message at the end.
    didWarnAboutMaps = false;
    process.env.NODE_ENV !== 'production' ? warning(didWarnAboutMaps, 'Using Maps as children is not fully supported. It is an experimental feature that might be removed. Convert it to a sequence / iterable of keyed ReactElements instead.%s', mapsAsChildrenAddendum) : void 0;
    didWarnAboutMaps = false;
    return 0;
  }

  var child;
  var nextName;
  var subtreeCount = 0;
  var nextNamePrefix = nameSoFar === '' ? SEPARATOR :
      // 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 :
      nameSoFar + SUBSEPARATOR;

  if (Array.isArray(children)) {
    for (var i = 0; i < children.length; i++) {
      child = children[i];
      nextName = nextNamePrefix + getComponentKey(child, i);
      subtreeCount +=
          traverseAllChildrenImpl(child, nextName, callback, traverseContext);
    }
  } else {
    var iteratorFn =
        getIteratorFn(children);
    if (iteratorFn) {
      var iterator = iteratorFn.call(children);
      var step;
      if (iteratorFn !== children.entries) {
        var ii = 0;
        while (!(step = iterator.next()).done) {
          child = step.value;
          nextName = nextNamePrefix + getComponentKey(child, ii++);
          subtreeCount +=
              traverseAllChildrenImpl(child, nextName, callback, traverseContext);
        }
      } else {
        var entry;
        while (entry = iterator.next()) {
          child = entry[1];
          nextName = nextNamePrefix + getComponentKey(child, 0);
          subtreeCount +=
              traverseAllChildrenImpl(child, nextName, callback, traverseContext);
        }
      }
    } else if (process.env.NODE_ENV !== 'production') {
      var mapsAsChildrenAddendum = ";
    }
  }
}

/**
 * @param {?*} children
 * @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.
 * @return {!number} The number of children in this subtree.
 */

function traverseAllChildren(children, nameSoFar, callback, traverseContext) {
  if (children === null || nameSoFar === '') {
    return 0;
  }

  var type = typeof children;

  if (type === 'undefined' || type === 'boolean') {
    children = null;
  }

  if (children === null || type === 'string' || type === 'number' ||
      // The following is inlined from ReactElement. This means we can optimize
      // some checks. React Fiber also inlines this logic for similar
      // purposes.
      type === 'object' && children.$$typeof === REACT_ELEMENT_TYPE) {
    // Set a flag if using Maps as children to add a warning message at the end.
    didWarnAboutMaps = false;
    process.env.NODE_ENV !== 'production' ? warning(didWarnAboutMaps, 'Using Maps as children is not fully supported. It is an experimental feature that might be removed. Convert it to a sequence / iterable of keyed ReactElements instead.%s', mapsAsChildrenAddendum) : void 0;
    didWarnAboutMaps = false;
    return 0;
  }

  var child;
  var nextName;
  var subtreeCount = 0;
  var nextNamePrefix = nameSoFar === '' ? SEPARATOR :
      // 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 :
      nameSoFar + SUBSEPARATOR;

  if (Array.isArray(children)) {
    for (var i = 0; i < children.length; i++) {
      child = children[i];
      nextName = nextNamePrefix + getComponentKey(child, i);
      subtreeCount +=
          traverseAllChildrenImpl(child, nextName, callback, traverseContext);
    }
  } else {
    var iteratorFn =
        getIteratorFn(children);
    if (iteratorFn) {
      var iterator = iteratorFn.call(children);
      var step;
      if (iteratorFn !== children.entries) {
        var ii = 0;
        while (!(step = iterator.next()).done) {
          child = step.value;
          nextName = nextNamePrefix + getComponentKey(child, ii++);
          subtreeCount +=
              traverseAllChildrenImpl(child, nextName, callback, traverseContext);
        }
      } else {
        var entry;
        while (entry = iterator.next()) {
          child = entry[1];
          nextName = nextNamePrefix + getComponentKey(child, 0);
          subtreeCount +=
              traverseAllChildrenImpl(child, nextName, callback, traverseContext);
        }
      }
    } else if (process.env.NODE_ENV !== 'production') {
      var mapsAsChildrenAddendum = ";
    }
  }
}

getIteratorFn = require('./getIteratorFn');

Object.keys(child).forEach(function(key)

  return

  invariant(key in child, 'ReactElement: Unknown key %s', key);
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var emptyFunction = require('fbjs/lib/emptyFunction');

var invariant = require('fbjs/lib/invariant');

var warning = require('fbjs/lib/warning');

var assign = require('object-assign');

var ReactPropTypesSecret = require('./lib/ReactPropTypesSecret');

var checkPropTypes = require('./checkPropTypes');

module.exports = function(isValidElement, throwOnDirectAccess) {
  /* global Symbol */

  /**
   * Collection of methods that allow declaration and validation of props that are
   * supplied to React components. Example usage:
   *
   *  var Props = require('ReactPropTypes');
   *  var MyArticle = React.createClass({
   *    propTypes: {
   *      // An optional string prop named `description`.
   *      description: Props.string,
   *
   *      // A required enum prop named `category`.
   *      category: Props.oneOf(['News', 'Photos']).isRequired,
   *
   *      // A prop named `dialog` that requires an instance of Dialog.
   *      dialog: Props.instanceOf(Dialog).isRequired
   *    },
   *    render: function() { ... }
   *  });
   *
   * A more formal specification of how these methods are used:
   *
   *  type := array|bool|func|object|number|string|oneOf([...])|instanceOf(...)
   *  decl := ReactPropTypes.{type}(.isRequired)?
   *
   * Each and every declaration produces a function with the same
   * signature. This allows the creation of custom validation functions. For example:
   *
   *  var MyLink = React.createClass({
   *    propTypes: {
   *      // An optional string or URI prop named `href`.
   *      href: function(props, propName, componentName) {
   *        var propValue = props[propName];
   *        if (propValue != null && typeof propValue !== 'string' &&
   *            !(propValue instanceof URI)) {
   *          return new Error('Expected a string or an URI for ' + propName + ' in ' +
   *            componentName);
   *        }
   *      }
   *    },
   *    render: function() {...}
   *  });
   *
   * @internal
   */

  var ANONYMOUS = '<<anonymous>>';

  // Important!
  // Keep this list in sync with production version in
  // ./factoryWithThrowingShims.js.

  var ReactPropTypes = {
    array: createPrimitiveTypeChecker('array'),
    bool: createPrimitiveTypeChecker('boolean'),
    func: createPrimitiveTypeChecker('function'),
    number: createPrimitiveTypeChecker('number'),
    object: createPrimitiveTypeChecker('object'),
    string: createPrimitiveTypeChecker('string'),
    symbol: createPrimitiveTypeChecker('symbol'),
    any: createAnyTypeChecker(),
    arrayOf: createArrayOfTypeChecker,
    element: createElementTypeChecker(),
    instanceOf: createObjectOfTypeChecker,
    oneOf: createEnumTypeChecker,
    oneOfType: createUnionTypeChecker,
    shape: createShapeTypeChecker,
    exact: createStrictShapeTypeChecker,
  };

  /**
   * inlined Object.is polyfill to avoid requiring consumers ship their own
   * function is(x, y) { [native code] }
   */

  function is(x, y) {
    // SameValue algorithm
    if (x === y) { return true; }
    if (x == null || y == null) { return false; }
    // Step 2: Type checks
    if (typeof x !== 'object' || typeof y !== 'object') { return false; }
    // Step 3: Cross-Object Checks
    if (x.constructor !== y.constructor) { return false; }
    // Step 4: Production-Specific Checks
    // 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.
    // Whenever PropTypeError is used, we should still work for returned errors.
    if (process.env.NODE_ENV !== 'production') {
      var
    }}

    // Make `instanceof Error` still
manualPropTypeCallCache = {};
var manualPropTypeWarningCount = 0;

function checkType(isRequired, props, propName, componentName, location, propFullName, secret) {
    componentName = componentName || ANONYMOUS;
    propFullName = propFullName || propName;

    function throwOnDirectAccess() { if (secret !== ReactPropTypesSecret) {
        // New behavior only for users of `prop-types` package
        invariant(false, 'Calling PropTypes validators directly is not supported by the `prop-types` package. ' +
            'Use `React.PropTypes.` 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]) {
            // Avoid spamming the console because they are often not actionable except for lib authors
            manualPropTypeWarningCount < 3
        } else {
            var propValue = props[propName];
            if (propValue == null) {
                if (isRequired) {
                    return new PropTypeError('The ' + propName + ' is marked as required in ' + componentName + ', but its value is null.');
                }
            }
            return validate(props, propName, componentName, location, propFullName);
        }
    }

    function manualPropTypeWarningCount++() { }

    if (isRequired) {
        return new PropTypeError('The ' + propName + ' is marked as required in ' + componentName + ', but its value is undefined.');
    }
    return null;
}

var PropTypeError = function(err) {
    this.message = err.message;
    this.name = this.constructor.name;
    Error.call(this, err.message);
    this.constructor.name = 'PropTypeError';
    this.is errs = true;
}

if (process.env.NODE_ENV !==
    'production' &&
    typeof console !==
    'undefined') {
    var createClassWarning

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
Symbol.prototype[@@toStringTag] === 'Symbol'\n if (propValue['@@toStringTag'] === 'Symbol') {\n
return
true;\n }\n\n // Fallback for non-spec compliant Symbols which are polyfilled.\n if (typeof Symbol ===
'function' && propValue instanceof Symbol) {\n
return true;\n }\n\n return false;\n }\n\n // Equivalent of
`typeof` but with special handling for array and regexp.\n function getPropType(propValue) {\n var propType =
typeof propValue;\n if (Array.isArray(propValue)) {\n
return 'array';\n }\n if (propValue instanceof
RegExp) {\n
// Old webkits (at least until Android 4.0) return 'function' rather than\n
// 'object' for typeof a
RegExp. We'll normalize this here so that /bla/\n
// passes PropTypes.object.\n
return 'object';\n }\n if
(isSymbol(propType, propValue)) {\n
return 'symbol';\n }\n return propType;\n }\n\n // This handles more
types than `getPropType`. Only used for error messages.\n // See `createPrimitiveTypeChecker`.\n function
getPreciseType(propValue) {\n if (typeof propValue === 'undefined' || propValue === null) {\n
return '' +
propValue;\n }\n var propType = getPropType(propValue);\n if (propType === 'object') {\n
if (propValue
instanceof Date) {\n
return 'date';\n } else if (propValue instanceof RegExp) {\n
return 'regexp';\n
}\n
}\n return propType;\n }\n\n // Returns a string that is postfixed to a warning about an invalid type.\n // For
example, \"undefined\" or \"of type array\"\n function getPostfixForTypeWarning(value) {\n var type =
getPreciseType(value);\n switch (type) {\n
case 'array':\n
case 'object':\n
return 'an ' + type;\n
case
'boolean':\n
case 'date':\n
case 'regexp':\n
return 'a ' + type;\n
default:\n
return type;\n }\n }\n\n
// Returns class name of the object, if any.\n function getClassName(propValue) {\n if (!propValue.constructor ||
!propValue.constructor.name) {\n
return ANONYMOUS;\n }\n return propValue.constructor.name;\n }\n\n
ReactPropTypes.checkPropTypes = checkPropTypes;\n ReactPropTypes.PropTypes = ReactPropTypes;\n\n return
ReactPropTypes;\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/proptypes/factoryWithTypeCheckers.js\n// module id = 546\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\nif (process.env.NODE_ENV !== 'production') {\n var invariant =
require('fbjs/lib/invariant');\n var warning = require('fbjs/lib/warning');\n var ReactPropTypesSecret =
require('./lib/ReactPropTypesSecret');\n var loggedTypeFailures = {};\n}\n\n/**\n * Assert that the values match
with the type specs.\n * Error messages are memorized and will only be shown once.\n *\n * @param {object}
typeSpecs Map of name to a ReactPropType\n * @param {object} values Runtime values that need to be typechecked\n * @param {string} location e.g. \"prop\", \"context\", \"child context\"\n * @param {string}
componentName Name of the component for error messages.\n * @param {?Function} getStack Returns the
component stack.\n * @private\n */\nfunction checkPropTypes(typeSpecs, values, location, componentName,
getStack) {\n if (process.env.NODE_ENV !== 'production') {\n for (var typeSpecName in typeSpecs) {\n
if
(typeSpecs.hasOwnProperty(typeSpecName)) {\n
var error;\n
// Prop type validation may throw. In case

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they do, we don't want to\n
// fail the render phase where it didn't fail before. So we log it.\n
// After these
have been cleaned up, we'll let them throw.\n
try {\n
// This is intentionally an invariant that gets caught.
It's the same\n
// behavior as without this statement except with a better message.\n
invariant(typeof
typeSpecs[typeSpecName] === 'function', '%s: %s type `%s` is invalid; it must be a function, usually from ' + 'the
`prop-types` package, but received `%s`.', componentName || 'React class', location, typeSpecName, typeof
typeSpecs[typeSpecName]);\n
error = typeSpecs[typeSpecName](values, typeSpecName, componentName,
location, null, ReactPropTypesSecret);\n
} catch (ex) {\n
error = ex;\n
}\n
warning(!error || error
instanceof Error, '%s: type specification of %s `%s` is invalid; the type checker ' + 'function must return `null` or an
`Error` but returned a %s. ' + 'You may have forgotten to pass an argument to the type checker ' + 'creator (arrayOf,
instanceOf, objectOf, oneOf, oneOfType, and ' + 'shape all require an argument).', componentName || 'React class',
location, typeSpecName, typeof error);\n
if (error instanceof Error && !(error.message in loggedTypeFailures))
{\n
// Only monitor this failure once because there tends to be a lot of the\n
// same error.\n
loggedTypeFailures[error.message] = true;\n\n
var stack = getStack ? getStack() : '';\n\n
warning(false,
'Failed %s type: %s%s', location, error.message, stack != null ? stack : '');\n
}\n
}\n }\n
}\n}\n\nmodule.exports = checkPropTypes;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/proptypes/checkPropTypes.js\n// module id = 547\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\nmodule.exports = '15.6.2';\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/react/lib/ReactVersion.js\n// module id = 548\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 _require =
require('./ReactBaseClasses'),\n Component = _require.Component;\n\nvar _require2 =
require('./ReactElement'),\n isValidElement = _require2.isValidElement;\n\nvar ReactNoopUpdateQueue =
require('./ReactNoopUpdateQueue');\nvar factory = require('create-react-class/factory');\n\nmodule.exports =
factory(Component, isValidElement, ReactNoopUpdateQueue);\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/react/lib/createClass.js\n// module id = 549\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 _assign = require('object-assign');\n\nvar
emptyObject = require('fbjs/lib/emptyObject');\nvar _invariant = require('fbjs/lib/invariant');\n\nif
(process.env.NODE_ENV !== 'production') {\n var warning = require('fbjs/lib/warning');\n}\n\nvar MIXINS_KEY
= 'mixins';\n\n// Helper function to allow the creation of anonymous functions which do not\n// have .name set to the
name of the variable being assigned to.\nfunction identity(fn) {\n return fn;\n}\n\nvar
ReactPropTypeLocationNames;\nif (process.env.NODE_ENV !== 'production') {\n ReactPropTypeLocationNames
= {\n prop: 'prop',\n context: 'context',\n childContext: 'child context'\n };\n} else {\n
ReactPropTypeLocationNames = {};\n}\n\nfunction factory(ReactComponent, isValidElement,
ReactNoopUpdateQueue) {\n /**\n * Policies that describe methods in `ReactClassInterface`.\n */\n\n var
injectedMixins = [];\n\n /**\n * Composite components are higher-level components that compose other
composite\n * or host components.\n *\n * To create a new type of `ReactClass`, pass a specification of\n *
your new class to `React.createClass`. The only requirement of your class\n * specification is that you implement a
`render` method.\n *\n * var MyComponent = React.createClass({\n * render: function() {\n *
return
<div>Hello World</div>;\n * }\n * });\n *\n * The class specification supports a specific protocol of
methods that have\n * special meaning (e.g. `render`). See `ReactClassInterface` for\n * more the comprehensive
protocol. Any other properties and methods in the\n * class specification will be available on the prototype.\n *\n
* @interface ReactClassInterface\n * @internal\n */\n var ReactClassInterface = {\n /**\n * An array of
Mixin objects to include when defining your component.\n *\n * @type {array}\n * @optional\n */\n
mixins: 'DEFINE_MANY',\n\n /**\n * An object containing properties and methods that should be defined on\n
* the component's constructor instead of its prototype (static methods).\n *\n * @type {object}\n *
@optional\n */\n statics: 'DEFINE_MANY',\n\n /**\n * Definition of prop types for this component.\n

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*@type {object}*
*@optional
*propTypes: 'DEFINE_MANY',
/**
*Definition of context types for this component.
*@type {object}*
*@optional
*contextTypes: 'DEFINE_MANY',
/**
*Definition of context types this component sets for its children.
*@type {object}*
*@optional
*childContextTypes: 'DEFINE_MANY',
/**
*Invoked when the component is mounted. Values in the mapping will be set on \n* `this.props` if that prop is not specified (i.e. using an `in` check).
*This method is invoked before `
getInitialState` and therefore cannot rely on `this.state` or use `this.set
*state`.
*getInitialState: function() { \n*   \n*   * @return {object}*
*   \n*   * @optional
*   \n*   * @getDefaulProps: 'DEFINE_MANY_MERGED',
/**
*Invoked once before the component is mounted. The return value will be used \n*as the initial value of `this.state`.
*getInitialState: function() { \n*   \n*   * @return {object}*
*   \n*   * @optional
*   \n*   * @getComponents: 'DEFINE_MANY',
/**
*Invoked when the component is mounted and has a DOM representation.
*However, there is no guarantee that the DOM node is in the document.
*Use this as an opportunity to operate on the DOM when the component has \n*been mounted (initialized and rendered) for the first time.
*componentDidMount: function() { \n*   \n*   * @return {ReactComponent}*
*   \n*   * @required
*   \n*   * @render:
*   \n*   * @return {object}*
*   \n*   * @optional
*   \n*   * @componentWillUnmount: 'DEFINE_MANY',
/**
*Invoked when the component is about to be removed from its parent and have \n*its DOM representation
destroyed.
* In * Use this as an opportunity to deallocate any external resources.
* In * NOTE: There is no `componentDidUnmount` since your component will have been destroyed by that point.
* In *

@optional
* In * componentWillUnmount: `DEFINE_MANY`
* In * Replacement for (deprecated) `componentWillMount`.
* In * @optional
* In * UNSAFE_componentWillMount:
`DEFINE_MANY`
* In * Replacement for (deprecated) `componentWillReceiveProps`.
* In * UNSAFE_componentWillReceiveProps:
`DEFINE_MANY`
* In * Replacement for (deprecated) `componentWillUpdate`.
* In * @optional
* In * UNSAFE_componentWillUpdate:
`DEFINE_MANY`
* In * // === Advanced methods ===
* In * Updates the component's currently mounted DOM representation.
* In * By default, this implements React's rendering and reconciliation algorithm.
* In * Sophisticated clients may wish to override this.
* In * @param {ReactReconcileTransaction} transaction
* In * @internal
* In * @overrideable

@optional

* In * getDerivedStateFromProps: `DEFINE_MANY_MERGED`
* In * Mapping from class specification keys to special processing functions.
* In * Although these are declared as deprecated 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.

* In * var RESERVED_SPEC_KEYS = {
* In * displayName: function(Constructor, displayName) {
* In *

Constructor.displayName = displayName;

},
* In *

mixins: function(Constructor, mixins) {
* In *

if (mixins) {
* In *

for (var i = 0; i < mixins.length; i++) {
* In *

mixSpecIntoComponent(Constructor, mixins[i]);

},
* In *

childContextTypes: function(Constructor, contextTypes) {
* In *

if (process.env.NODE_ENV !== 'production') {
* In *

validateTypeDef(Constructor, contextTypes);

},
* In *

childContextTypes = _assign(
* In *

Constructor.childContextTypes = _assign(
* In *

Constructor.childContextTypes;

},
* In *

contextTypes: function(Constructor, contextTypes) {
* In *

if (process.env.NODE_ENV !== 'production') {
* In *

validateTypeDef(Constructor, contextTypes);

},
* In *

contextTypes = _assign(
* In *

Constructor.contextTypes;

},
* In *

**
* Special case getDerivedProps which should move into statics but requires automatic merging.

* In *

getDerivedProps: function(Constructor, getDerivedProps) {
* In *

if (Constructor.getDerivedProps) {
* In *

Constructor.getDerivedProps = createMergedResultFunction(
* In *

Constructor.getDerivedProps;

},
* In *

getDerivedProps

} else {
* In *

Constructor.getDerivedProps = getDerivedProps;

},
* In *

propTypes: function(Constructor, propTypes) {
* In *

if (process.env.NODE_ENV !== 'production') {
* In *

validateTypeDef(Constructor, propTypes, 'prop');

},
* In *

propTypes = _assign({}, Constructor.propTypes, propTypes);

},
* In *

statics: function(Constructor, statics) {
* In *

mixStaticSpecIntoComponent(Constructor, statics);

},
* In *

autobind: function() {
* In *

function validateTypeDef(Constructor, typeDef, location) {
* In *

for (var propName in typeDef) {
* In *

if (typeDef.hasOwnProperty(propName)) {
* In *

// use a warning instead of an _invariant so components
* In *

do n't show up in prod but only in __DEV__
* In *

if (process.env.NODE_ENV !== 'production') {
* In *

warning('%s: %s type `%s` is invalid; it must be a function, usually from React.PropTypes.

`ReactClass` \ ReactPropTypeLocationNames[location];

propName

});

},
* In *

function validateMethodOverride(isAlreadyDefined, name) {
* In *

var specPolicy = ReactClassInterface.hasOwnProperty(name) ? ReactClassInterface[name] : null;

// Disallow overriding of base class methods unless explicitly allowed.

if (ReactClassMixin.hasOwnProperty(name)) {
* In *

_invariant

specPolicy === 'OVERRIDE_BASE',

'ReactClassInterface: You are attempting to override `' +

'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.


if (isAlreadyDefined) {\n
_invariant(\n
specPolicy === 'DEFINE_MANY' || specPolicy ===
'DEFINE_MANY_MERGED',\n
'ReactClassInterface: You are attempting to define ' +\n
'`%s` on your
component more than once. This conflict may be due ' +\n
'to a mixin.',\n
name\n
);\n }\n }\n\n /**\n
* Mixin helper which handles policy validation and reserved\n * specification keys when building React classes.\n
*/\n function mixSpecIntoComponent(Constructor, spec) {\n if (!spec) {\n
if (process.env.NODE_ENV !==
'production') {\n
var typeofSpec = typeof spec;\n
var isMixinValid = typeofSpec === 'object' && spec !==
null;\n\n
if (process.env.NODE_ENV !== 'production') {\n
warning(\n
isMixinValid,\n
\"%s:
You're attempting to include a mixin that is either null \" +\n
'or not an object. Check the mixins included by
the component, ' +\n
'as well as any mixins they include themselves. ' +\n
'Expected object but got
%s.',\n
Constructor.displayName || 'ReactClass',\n
spec === null ? null : typeofSpec\n
);\n
}\n
}\n\n
return;\n }\n\n _invariant(\n
typeof spec !== 'function',\n
\"ReactClass: You're attempting
to \" +\n
'use a component class or function as a mixin. Instead, just use a ' +\n
'regular object.'\n );\n
_invariant(\n
!isValidElement(spec),\n
\"ReactClass: You're attempting to \" +\n
'use a component as a
mixin. Instead, just use a regular object.'\n );\n\n var proto = Constructor.prototype;\n var autoBindPairs =
proto.__reactAutoBindPairs;\n\n // By handling mixins before any other properties, we ensure the same\n //
chaining order is applied to methods with DEFINE_MANY policy, whether\n // mixins are listed before or after
these methods in the spec.\n if (spec.hasOwnProperty(MIXINS_KEY)) {\n
RESERVED_SPEC_KEYS.mixins(Constructor, spec.mixins);\n }\n\n for (var name in spec) {\n
if
(!spec.hasOwnProperty(name)) {\n
continue;\n
}\n\n
if (name === MIXINS_KEY) {\n
// We have
already handled mixins in a special case above.\n
continue;\n
}\n\n
var property = spec[name];\n
var
isAlreadyDefined = proto.hasOwnProperty(name);\n
validateMethodOverride(isAlreadyDefined, name);\n\n
if (RESERVED_SPEC_KEYS.hasOwnProperty(name)) {\n
RESERVED_SPEC_KEYS[name](Constructor,
property);\n
} else {\n
// Setup methods on prototype:\n
// The following member methods should not be
automatically bound:\n
// 1. Expected ReactClass methods (in the \"interface\").\n
// 2. Overridden methods
(that were mixed in).\n
var isReactClassMethod = ReactClassInterface.hasOwnProperty(name);\n
var
isFunction = typeof property === 'function';\n
var shouldAutoBind =\n
isFunction &&\n
!isReactClassMethod &&\n
!isAlreadyDefined &&\n
spec.autobind !== false;\n\n
if
(shouldAutoBind) {\n
autoBindPairs.push(name, property);\n
proto[name] = property;\n
} else {\n
if (isAlreadyDefined) {\n
var specPolicy = ReactClassInterface[name];\n\n
// These cases should
already be caught by validateMethodOverride.\n
_invariant(\n
isReactClassMethod &&\n
(specPolicy === 'DEFINE_MANY_MERGED' ||\n
specPolicy === 'DEFINE_MANY'),\n
'ReactClass: Unexpected spec policy %s for key %s ' +\n
'when mixing in component specs.',\n
specPolicy,\n
name\n
);\n\n
// For methods which are defined more than once, call the
existing\n
// methods before calling the new property, merging if appropriate.\n
if (specPolicy ===
'DEFINE_MANY_MERGED') {\n
proto[name] = createMergedResultFunction(proto[name], property);\n
} else if (specPolicy === 'DEFINE_MANY') {\n
proto[name] = createChainedFunction(proto[name],
property);\n
}\n
} else {\n
proto[name] = property;\n
if (process.env.NODE_ENV !==
'production') {\n
// Add verbose displayName to the function, which helps when looking\n
// at
profiling tools.\n
if (typeof property === 'function' && spec.displayName) {\n
proto[name].displayName = spec.displayName + '_' + name;\n
}\n
}\n
}\n
}\n }\n }\n
}\n\n function mixStaticSpecIntoComponent(Constructor, statics) {\n if (!statics) {\n
return;\n }\n\n for
(var name in statics) {\n
var property = statics[name];\n
if (!statics.hasOwnProperty(name)) {\n
continue;\n
}\n\n
var isReserved = name in RESERVED_SPEC_KEYS;\n
_invariant(\n
!isReserved,\n
'ReactClass: You are attempting to define a reserved ' +\n
'property, `%s`, that shouldn\\'t be on the
\"statics\" key. Define it ' +\n
'as an instance property instead; it will still be accessible on the ' +\n
'constructor.',\n
name\n
);\n\n
var isAlreadyDefined = name in Constructor;\n
if (isAlreadyDefined)
{\n
var specPolicy = ReactClassStaticInterface.hasOwnProperty(name)\n
?
ReactClassStaticInterface[name]\n
: null;\n\n
_invariant(\n
specPolicy ===

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componentWillUnmount: function() {
    this._isMounted = false;
    this.pollInterval = null;
};

/**
 * Add more to the ReactClass base class. These are all legacy features and
 * therefore not already part of the modern
 * ReactComponent.
 */

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);
  },

  /**
   * Checks whether or not this composite component is mounted.
   * @return {boolean} True if mounted, false otherwise.
   */
  isMounted: function() {
    if (process.env.NODE_ENV !== 'production') {
      warning(
        this.__isMounted,
        '%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'
      );
      this.__isMounted
    }
    return !!this.__isMounted;
  },

  /**
   * Creates a composite component class given a class specification.
   * @see
   * https://facebook.github.io/react/docs/top-level-api.html#react.createClass
   * @param {object} spec Class specification (which must define `render`).
   * @return {function} Component constructor function.
   * @public
   */
  function createClass(spec) {
    var Constructor = identity(function(props, context, updater) {
      // This constructor gets overridden by mocks. The argument is used
      // by mocks to assert on
      // what gets mounted.
      if (process.env.NODE_ENV !== 'production') {
        warning(
          this instanceof Constructor,
          'Something is calling a React component directly. Use a factory or ' +
          'JSX instead.
        );
        this.pollInterval = null;
        this.pollingInterval = null;
      }

      // Wire up auto-binding
      if (this.__reactAutoBindPairs.length) {
        bindAutoBindMethods(this);
      }

      this.props = props;
      this.context = context;
      this.refs = emptyObject;
      this.updater = updater || ReactNoopUpdateQueue;

      this.state = null;

      // ReactClasses doesn't have constructors. Instead, they use the
      // getInitialState and
      // getInitialState methods for initialization.
      var initialState = this.getInitialState ? this.getInitialState() :
      null;
      if (process.env.NODE_ENV !== 'production') {
        // We allow auto-mocks to proceed as if they're returning null.
        if (!this.pollingInterval) {
          if (process.env.NODE_ENV !== 'production') {
            if (this.state === undefined &&
              this.getInitialState._isMockFunction) {
              this.state = null;
            }
          }
        }
      }
      _invariant(
        typeof initialState === 'object' &&
        !Array.isArray(initialState),
        '%s.getInitialState(): must return an object or null.',
        Constructor.displayName ||
          Constructor.name ||
          'ReactCompositeComponent'
      );
      this.state = initialState;
    });
    Constructor.prototype = new ReactClassComponent();
    Constructor.prototype.constructor = Constructor;

    injectedMixins.forEach(mixSpecIntoComponent.bind(null,
      Constructor.prototype));
    mixSpecIntoComponent(Constructor.prototype,
      ReactClassComponent.prototype,
      ReactClassMixin);

    if (Constructor.getDefaultProps) {
      Constructor.defaultProps = Constructor.getDefaultProps();
    }

    if (process.env.NODE_ENV !== 'production') {
      // This is a tag to indicate that the use of these method names is ok.
      // since it's used with createClass. If
      // it's not, then it's likely a mistake so we'll warn you to use the static property. property
      // initializer or constructor respectively.
      if (Constructor.getDefaultProps) {
        Constructor.getDefaultProps.isReactClassApproved = true;
        Constructor.prototype.isReactClassApproved = true;
      }
      if (Constructor.prototype) {
        Constructor.prototype.render = function() {
          // `createClass(...)` Class specification must implement a `render` method.
          this._createInitialClassInstance();
          this.componentShouldUpdate;
          // `%s has a method called ' +
          'componentShouldUpdate(). Did you mean shouldComponentUpdate()? ' +
          'The name is phrased as a
question because the function is ' +\n  'expected to return a value.' +\n  'spec.displayName || 'A component
  )\n  warning(\n    !Constructor.prototype.componentWillRecieveProps,\n    '%s has a method called ' +\n    'componentWillRecieveProps(). Did you mean componentWillRecieveProps()?,\n  )\n  spec.displayName || 'A component
  )\n  warning(\n    !Constructor.prototype.UNSAFE_componentWillRecieveProps,\n    '%s has a method called UNSAFE_componentWillRecieveProps(). '+'
  )\n  !Constructor.prototype.componentWillRecieveProps,\n    '%s has a method called UNSAFE_componentWillRecieveProps(). Did you mean
  )\n  !Constructor.prototype.UNSAFE_componentWillRecieveProps,\n    '%s has a method called UNSAFE_componentWillRecieveProps(). Did you mean
  )\n  !Constructor.prototype.componentWillRecieveProps,\n    '%s has a method called UNSAFE_componentWillRecieveProps(). Did you mean

    // Reduce time spent doing lookups by setting these on the prototype.:\n    for (var methodName in ReactClassInterface) {
      if (!Constructor.prototype[methodName]) {
        Constructor.prototype[methodName] = null;
      }
    }

    return Constructor;
  }

  return createClass;
}

module.exports = factory;

/**
 * Copyright (c) 2013-present, Facebook, Inc.\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 * LICENSE file in the root directory of this source tree.\n */
'use strict';

var _prodInvariant = require('./reactProdInvariant');

var ReactElement = require('./ReactElement');

var invariant = require('fbjs/lib/invariant');

/**
 * 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-level-api.html#react.children.only
 *\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 * Returns the first and only `ReactElement` contained in the structure.\n */
function onlyChild(children) {

  !ReactElement.isValidElement(children) ? process.env.NODE_ENV !== 'production' ? invariant(false,\n    'React.Children.only expected to receive a single React element child.') : _prodInvariant('143') : void 0;
  return children;
}

module.exports = onlyChild;

/**
 * Detect free variable `global` from Node.js.\n */
var freeGlobal = typeof global == 'object' && global && global.Object === Object && global;

export default freeGlobal;
unexpectedKeyCache) {
  var reducerKeys = Object.keys(reducers);
  var argumentName = action && action.type === ActionTypes.INIT ? 'preloadedState argument passed to createStore' : 'previous state received by the reducer';
  if (reducerKeys.length === 0) {
    return 'Store does not have a valid reducer. Make sure the argument passed + to combineReducers is an object whose values are reducers.
  } else if (isObjectPlainObject(inputState)) {
    return 'The ' + argumentName + ' has unexpected type of "' + inputState + '". Expected argument to be an object with the following ' + ('keys: "' + reducerKeys.join(', "') + '"');
  }

  var unexpectedKeys = Object.keys(inputState).filter(function (key) {
    return !(reducers.hasOwnProperty(key) && !unexpectedKeyCache[key]);
  });

  unexpectedKeys.forEach(function (key) {
    unexpectedKeyCache[key] = true;
  });

  if (unexpectedKeys.length > 0) {
    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. ');
  }
}

function assertReducerShape(reducers) {
  Object.keys(reducers).forEach(function (key) {
    var reducer = reducers[key];
    var initialState = reducer(undefined, { type: ActionTypes.INIT });

    if (typeof initialState === 'undefined') {
      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.
  } else if (process.env.NODE_ENV !== 'production') {
      if (typeof reducers[key] === 'undefined') {
        warning('No reducer provided for key "' + key + '"');
      }
    }

    if (typeof reducers[key] === 'function') {
      finalReducers[key] = reducers[key];
    }
  })

  finalReducerKeys = Object.keys(finalReducers);

  unexpectedKeyCache = void 0;
  if (process.env.NODE_ENV !== 'production') {
    unexpectedKeyCache = {};
  }

  shapeAssertionError = void 0;
  try {
    assertReducerShape(finalReducers);
  } catch (e) {
    shapeAssertionError = e;
  }

  function combination() {
    var state = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};
    var action = arguments[1];

    if (shapeAssertionError) {
      throw shapeAssertionError;
    }

    var hasChanged = false;
    var nextState = {};
    for (var _i = 0; _i < finalReducerKeys.length; _i++) {
      var _key = finalReducerKeys[_i];
      var previousStateForKey = state[_key];
      var nextStateForKey = reducer(previousStateForKey, action);
      if (typeof nextStateForKey === 'undefined') {
        var errorMessage = getUndefinedStateErrorMessage(_key, action);
        throw new Error(errorMessage);
      }
      nextState[_key] = nextStateForKey;
      hasChanged = hasChanged || nextStateForKey !== previousStateForKey;
    }
    return nextState;
```

```
exports.default = function (reducers) {
    var reducerKeys = Object.keys(reducers);

    // eslint-disable-next-line space-infix-ops
    return function () {
        var inputState = arguments.length <= 0 || arguments[0] === undefined ? _immutable2.default.Map() : arguments[0];
        var action = arguments[1];

        // eslint-disable-next-line no-process-env
        if (process.env.NODE_ENV !== 'production') {
            var warningMessage = (0, _utilities.getUnexpectedInvocationParameterMessage)(inputState, reducers, action);
            if (warningMessage) {
                // eslint-disable-next-line no-console
                console.error(warningMessage);
            }
        }

        return inputState.withMutations(function (temporaryState) {
            reducerKeys.forEach(function (reducerName) {
                var reducer = reducers[reducerName];
                var currentDomainState = temporaryState.get(reducerName);
                var nextDomainState = reducer(currentDomainState, action);
                (0, _utilities.validateNextState)(nextDomainState, reducerName, action);
                temporaryState.set(reducerName, nextDomainState);
            });
        });
    };
};

module.exports = exports['default'];

//////////////////
// WEBPACK FOOTER
// ./node_modules/redux-immutable/dist/combineReducers.js
// module id = 567
// module chunks = 0

'use strict';

Object.defineProperty(exports, '__esModule', {
  value: true
});
exports.validateNextState = exports.getUnexpectedInvocationParameterMessage = exports.getStateName = undefined;

var _getStateName2 = require('./getStateName.js');

var _getStateName3 = _interopRequireDefault(_getStateName2);

var _getUnexpectedInvocationParameterMessage2 = require('./getUnexpectedInvocationParameterMessage.js');

var _getUnexpectedInvocationParameterMessage3 = _interopRequireDefault(_getUnexpectedInvocationParameterMessage2);

var _validateNextState2 = require('./validateNextState.js');

var _validateNextState3 = _interopRequireDefault(_validateNextState2);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.getStateName = _getStateName3.default;
exports.getUnexpectedInvocationParameterMessage = _getUnexpectedInvocationParameterMessage3.default;
exports.validateNextState = _validateNextState3.default;

//////////////////
// WEBPACK FOOTER
// ./node_modules/redux-immutable/dist/utilities/index.js
// module id = 568
// module chunks = 0

'use strict';

Object.defineProperty(exports, '__esModule', {
    value: true
});

exports.default = function (state, reducers, action) {
    var reducerNames = Object.keys(reducers);

    if (!reducerNames.length) {
        return 'Store does not have a valid reducer. Make sure the argument passed to combineReducers is an object whose values are reducers.';
    }

    var stateName = (0, _getStateName2.default)(action);

    if (!_immutable2.default.Iterable.isIterable(state)) {
        return 'The ' + stateName + ' is of unexpected type. Expected argument to be an instance of Immutable.Iterable with the following properties: "' + reducerNames.join('", "') + '".';
    }

    var unexpectedStatePropertyNames = state.keySeq().toArray().filter(function (name) {
        return !reducers.hasOwnProperty(name);
    });

    if (unexpectedStatePropertyNames.length > 0) {
        return 'Unexpected ' + (unexpectedStatePropertyNames.length === 1 ? 'property' : 'properties') + ' "' + unexpectedStatePropertyNames.join('", "') + '" found in ' + stateName + '. Expected argument to be an instance of Immutable.Iterable. Immutable.Iterable with the following properties: "\' + reducerNames.join('", "') + '\". Unexpected properties will be ignored.';
    }

    return null;
};

module.exports = exports['default'];

//////////////////
// WEBPACK FOOTER
// ./node_modules/redux-immutable/dist/utilities/getUnexpectedInvocationParameterMessage.js
// module id = 569
// module chunks = 0

= 57?\n// module chunks = 0","/** Used for built-in method references. */\nvar objectProto = Object.prototype;\n/**\n * Converts `value` to a string using `Object.prototype.toString`.\n * @param {string} method\n * @returns {string}\n * The result of `Object.prototype.toString.call(value)`.\n */\nfunction objectToString(value) { return objectProto.toString.call(value); }\n
module.exports = objectToString;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_objectToString.js
//

module.exports = createCaseFirst;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_createCaseFirst.js

function castSlice(array, start, end) {\n  var length = array.length;\n  end = end === undefined ? length : end;\n  return (!start && end >= length) ? array : baseSlice(array, start, end);\n}

module.exports = castSlice;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_castSlice.js

function stringToArray(string) {\n  return hasUnicode(string) \n    ? unicodeToArray(string) \n    : asciiToArray(string);\n}

module.exports = stringToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_stringToArray.js

function asciiToArray(string) {\n  return string.split('');\n}

module.exports = asciiToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_asciiToArray.js

var asciiToArray = require('./_asciiToArray'),\n    hasUnicode = require('./_hasUnicode'),\n    unicodeToArray = require('./_unicodeToArray');\n
/**\n * Converts an ASCII `string` to an array.\n * @private\n * @param {string} string The string to convert.\n * @returns {Array} Returns the converted array.\n */\nfunction asciiToArray(string) {\n  return string.split('');\n}

module.exports = asciiToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_unicodeToArray.js

var arrayReduce = require('./_arrayReduce'),\n    deburr = require('./_deburr'),\n    hasUnicode = require('./_hasUnicode'),\n    objectToString = require('./_objectToString'),\n    rsAstralRange = '\ud800-\udfff',\n    rsComboMarksRange = '\u0300-\u036f',\n    reComboHalfMarksRange = '\ufe20-\ufe2f',\n    rsComboSymbolsRange = '\u20d0-\u20ff',\n    rsComboRange = rsComboMarksRange + rsComboHalfMarksRange + rsComboSymbolsRange,\n    rsVarRange = '\ufe0e-\ufe0f';

/** Used to compose unicode capture groups. */\nvar rsAstral = '[' + rsAstralRange + ']',\n    rsCombo = '[' + rsComboRange + ']',\n    rsFitz = '\ud83c\udffb-\ud83c\udfff',\n    rsModifier = '\\u20d0-\20ff',\n    rsNonAstral = '[^' + rsAstralRange + ']',\n    rsRegional = '(?:\\ud83c\\uddea-\\ud83c\\uddff)',\n    rsSurrPair = '\\ud800-\\udfff',\n    rsZWJ = '\\ufe0f';

/** Used to compose unicode `string` functions. */\nvar reUnicode = RegExp(rsFitz + '(?=' + rsFitz + ')|' + rsSymbol + rsSeq, 'g');

/**\n * Converts a Unicode `string` to an array.\n * @private\n * @param {string} string The string to convert.\n * @returns {Array} Returns the converted array.\n */\nfunction unicodeToArray(string) {\n  return string.match(reUnicode) || [];\n}

module.exports = unicodeToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_unicodeToArray.js

var arrayReduce = require('./_arrayReduce'),\n    deburr = require('./_deburr'),\n    hasUnicode = require('./_hasUnicode'),\n    objectToString = require('./_objectToString'),\n    rsAstralRange = '\ud800-\udfff',\n    rsComboMarksRange = '\u0300-\u036f',\n    reComboHalfMarksRange = '\ufe20-\ufe2f',\n    rsComboSymbolsRange = '\u20d0-\u20ff',\n    rsComboRange = rsComboMarksRange + rsComboHalfMarksRange + rsComboSymbolsRange,\n    rsVarRange = '\ufe0e-\ufe0f';

/** Used to compose unicode capture groups. */\nvar rsAstral = '[' + rsAstralRange + ']',\n    rsCombo = '[' + rsComboRange + ']',\n    rsFitz = '\ud83c\udffb-\ud83c\udfff',\n    rsModifier = '\\u20d0-\20ff',\n    rsNonAstral = '[^' + rsAstralRange + ']',\n    rsRegional = '(?:\\ud83c\\uddea-\\ud83c\\uddff)',\n    rsSurrPair = '\\ud800-\\udfff',\n    rsZWJ = '\\ufe0f';

/** Used to compose unicode `string` functions. */\nvar reUnicode = RegExp(rsFitz + '(?=' + rsFitz + ')|' + rsSymbol + rsSeq, 'g');

/**\n * Converts a Unicode `string` to an array.\n * @private\n * @param {string} string The string to convert.\n * @returns {Array} Returns the converted array.\n */\nfunction unicodeToArray(string) {\n  return string.match(reUnicode) || [];\n}

module.exports = unicodeToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_unicodeToArray.js

var arrayReduce = require('./_arrayReduce'),\n    deburr = require('./_deburr'),\n    hasUnicode = require('./_hasUnicode'),\n    objectToString = require('./_objectToString'),\n    rsAstralRange = '\ud800-\udfff',\n    rsComboMarksRange = '\u0300-\u036f',\n    reComboHalfMarksRange = '\ufe20-\ufe2f',\n    rsComboSymbolsRange = '\u20d0-\u20ff',\n    rsComboRange = rsComboMarksRange + rsComboHalfMarksRange + rsComboSymbolsRange,\n    rsVarRange = '\ufe0e-\ufe0f';

/** Used to compose unicode capture groups. */\nvar rsAstral = '[' + rsAstralRange + ']',\n    rsCombo = '[' + rsComboRange + ']',\n    rsFitz = '\ud83c\udffb-\ud83c\udfff',\n    rsModifier = '\\u20d0-\20ff',\n    rsNonAstral = '[^' + rsAstralRange + ']',\n    rsRegional = '(?:\\ud83c\\uddea-\\ud83c\\uddff)',\n    rsSurrPair = '\\ud800-\\udfff',\n    rsZWJ = '\\ufe0f';

/** Used to compose unicode `string` functions. */\nvar reUnicode = RegExp(rsFitz + '(?=' + rsFitz + ')|' + rsSymbol + rsSeq, 'g');

/**\n * Converts a Unicode `string` to an array.\n * @private\n * @param {string} string The string to convert.\n * @returns {Array} Returns the converted array.\n */\nfunction unicodeToArray(string) {\n  return string.match(reUnicode) || [];\n}

module.exports = unicodeToArray;
require('./deburr'),\n words = require('./words');\n\n/** Used to compose unicode capture groups. */\nvar rsApos =
\"['\\u2019]\";\n\n/** Used to match apostrophes. */\nvar reApos = RegExp(rsApos, 'g');\n\n/**\n * Creates a
function like `_.camelCase`.\n *\n * @private\n * @param {Function} callback The function to combine each
word.\n * @returns {Function} Returns the new compounder function.\n */\nfunction createCompounder(callback)
{\n return function(string) {\n return arrayReduce(words(deburr(string).replace(reApos, '')), callback, '');\n
};\n}\n\nmodule.exports = createCompounder;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/lodash/_createCompounder.js\n// module id = 584\n// module chunks = 0","var deburrLetter =
require('./_deburrLetter'),\n toString = require('./toString');\n\n/** Used to match Latin Unicode letters (excluding
mathematical operators). */\nvar reLatin = /[\\xc0-\\xd6\\xd8-\\xf6\\xf8-\\xff\\u0100-\\u017f]/g;\n\n/** Used to
compose unicode character classes. */\nvar rsComboMarksRange = '\\\\u0300-\\\\u036f',\n
reComboHalfMarksRange = '\\\\ufe20-\\\\ufe2f',\n rsComboSymbolsRange = '\\\\u20d0-\\\\u20ff',\n
rsComboRange = rsComboMarksRange + reComboHalfMarksRange + rsComboSymbolsRange;\n\n/** Used to
compose unicode capture groups. */\nvar rsCombo = '[' + rsComboRange + ']';\n\n/**\n * Used to match [combining
diacritical marks](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks) and\n * [combining diacritical
marks for symbols](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks_for_Symbols).\n */\nvar
reComboMark = RegExp(rsCombo, 'g');\n\n/**\n * Deburrs `string` by converting\n * [Latin-1
Supplement](https://en.wikipedia.org/wiki/Latin-1_Supplement_(Unicode_block)#Character_table)\n * and [Latin
Extended-A](https://en.wikipedia.org/wiki/Latin_Extended-A)\n * letters to basic Latin letters and removing\n *
[combining diacritical marks](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks).\n *\n * @static\n *
@memberOf _\n * @since 3.0.0\n * @category String\n * @param {string} [string=''] The string to deburr.\n *
@returns {string} Returns the deburred string.\n * @example\n *\n * _.deburr('déjà vu');\n * // => 'deja vu'\n
*/\nfunction deburr(string) {\n string = toString(string);\n return string && string.replace(reLatin,
deburrLetter).replace(reComboMark, '');\n}\n\nmodule.exports = deburr;\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/lodash/deburr.js\n// module id = 585\n// module chunks = 0","var basePropertyOf =
require('./_basePropertyOf');\n\n/** Used to map Latin Unicode letters to basic Latin letters. */\nvar deburredLetters
= {\n // Latin-1 Supplement block.\n '\\xc0': 'A', '\\xc1': 'A', '\\xc2': 'A', '\\xc3': 'A', '\\xc4': 'A', '\\xc5': 'A',\n '\\xe0':
'a', '\\xe1': 'a', '\\xe2': 'a', '\\xe3': 'a', '\\xe4': 'a', '\\xe5': 'a',\n '\\xc7': 'C', '\\xe7': 'c',\n '\\xd0': 'D', '\\xf0': 'd',\n '\\xc8':
'E', '\\xc9': 'E', '\\xca': 'E', '\\xcb': 'E',\n '\\xe8': 'e', '\\xe9': 'e', '\\xea': 'e', '\\xeb': 'e',\n '\\xcc': 'I', '\\xcd': 'I', '\\xce': 'I',
'\\xcf': 'I',\n '\\xec': 'i', '\\xed': 'i', '\\xee': 'i', '\\xef': 'i',\n '\\xd1': 'N', '\\xf1': 'n',\n '\\xd2': 'O', '\\xd3': 'O', '\\xd4': 'O',
'\\xd5': 'O', '\\xd6': 'O', '\\xd8': 'O',\n '\\xf2': 'o', '\\xf3': 'o', '\\xf4': 'o', '\\xf5': 'o', '\\xf6': 'o', '\\xf8': 'o',\n '\\xd9': 'U',
'\\xda': 'U', '\\xdb': 'U', '\\xdc': 'U',\n '\\xf9': 'u', '\\xfa': 'u', '\\xfb': 'u', '\\xfc': 'u',\n '\\xdd': 'Y', '\\xfd': 'y', '\\xff': 'y',\n
'\\xc6': 'Ae', '\\xe6': 'ae',\n '\\xde': 'Th', '\\xfe': 'th',\n '\\xdf': 'ss',\n // Latin Extended-A block.\n '\\u0100': 'A',
'\\u0102': 'A', '\\u0104': 'A',\n '\\u0101': 'a', '\\u0103': 'a', '\\u0105': 'a',\n '\\u0106': 'C', '\\u0108': 'C', '\\u010a': 'C',
'\\u010c': 'C',\n '\\u0107': 'c', '\\u0109': 'c', '\\u010b': 'c', '\\u010d': 'c',\n '\\u010e': 'D', '\\u0110': 'D', '\\u010f': 'd',
'\\u0111': 'd',\n '\\u0112': 'E', '\\u0114': 'E', '\\u0116': 'E', '\\u0118': 'E', '\\u011a': 'E',\n '\\u0113': 'e', '\\u0115': 'e',
'\\u0117': 'e', '\\u0119': 'e', '\\u011b': 'e',\n '\\u011c': 'G', '\\u011e': 'G', '\\u0120': 'G', '\\u0122': 'G',\n '\\u011d': 'g',
'\\u011f': 'g', '\\u0121': 'g', '\\u0123': 'g',\n '\\u0124': 'H', '\\u0126': 'H', '\\u0125': 'h', '\\u0127': 'h',\n '\\u0128': 'I',
'\\u012a': 'I', '\\u012c': 'I', '\\u012e': 'I', '\\u0130': 'I',\n '\\u0129': 'i', '\\u012b': 'i', '\\u012d': 'i', '\\u012f': 'i', '\\u0131':
'i',\n '\\u0134': 'J', '\\u0135': 'j',\n '\\u0136': 'K', '\\u0137': 'k', '\\u0138': 'k',\n '\\u0139': 'L', '\\u013b': 'L', '\\u013d':
'L', '\\u013f': 'L', '\\u0141': 'L',\n '\\u013a': 'l', '\\u013c': 'l', '\\u013e': 'l', '\\u0140': 'l', '\\u0142': 'l',\n '\\u0143': 'N',
'\\u0145': 'N', '\\u0147': 'N', '\\u014a': 'N',\n '\\u0144': 'n', '\\u0146': 'n', '\\u0148': 'n', '\\u014b': 'n',\n '\\u014c': 'O',
'\\u014e': 'O', '\\u0150': 'O',\n '\\u014d': 'o', '\\u014f': 'o', '\\u0151': 'o',\n '\\u0154': 'R', '\\u0156': 'R', '\\u0158': 'R',\n
'\\u0155': 'r', '\\u0157': 'r', '\\u0159': 'r',\n '\\u015a': 'S', '\\u015c': 'S', '\\u015e': 'S', '\\u0160': 'S',\n '\\u015b': 's',
'\\u015d': 's', '\\u015f': 's', '\\u0161': 's',\n '\\u0162': 'T', '\\u0164': 'T', '\\u0166': 'T',\n '\\u0163': 't', '\\u0165': 't',
'\\u0167': 't',\n '\\u0168': 'U', '\\u016a': 'U', '\\u016c': 'U', '\\u016e': 'U', '\\u0170': 'U', '\\u0172': 'U',\n '\\u0169': 'u',
'\\u016b': 'u', '\\u016d': 'u', '\\u016f': 'u', '\\u0171': 'u', '\\u0173': 'u',\n '\\u0174': 'W', '\\u0175': 'w',\n '\\u0176': 'Y',
'\\u0177': 'y', '\\u0178': 'Y',\n '\\u0179': 'Z', '\\u017b': 'Z', '\\u017d': 'Z',\n '\\u017a': 'z', '\\u017c': 'z', '\\u017e': 'z',\n
'\\u0132': 'IJ', '\\u0133': 'ij',\n '\\u0152': 'Oe', '\\u0153': 'oe',\n '\\u0149': \"'n\", '\\u017f': 's'\n};\n\n/**\n * Used by

Open Source Used In MSX SD-WAN Service Pack 4.0.0 20483


`_deburr` to convert Latin-1 Supplement and Latin Extended-A

*letters to basic Latin letters.

* @private

* @param {string} letter The matched letter to deburr.

* @returns {string} Returns the deburred letter.

```
var deburrLetter = basePropertyOf(deburredLetters);
module.exports = deburrLetter;
```

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```
Checks if `func` has its source masked.

```javascript
Checks if `func` has its source masked.

``` *

* @private
* @param {Function} func The function to check.
* @returns {boolean} Returns `true` if `func` is masked, else `false`.

```javascript
function isMasked(func) {
  return !!maskSrcKey && (maskSrcKey in func);
}

module.exports = isMasked;
```

```javascript

```
Returns the new find function.

```javascript
function createFind(findIndexFunc) {
  return function(collection, predicate, fromIndex) {
    var iteratee = Object(collection);
    if (isArrayLike(collection)) {
      var var iteratee = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) {
        return iteratee(key, key, iteratee);
      };
    } else {
      var index = findIndexFunc(collection, predicate, fromIndex);
    } else {
      var index = findIndex(collection, index);
    }
  }
}

module.exports = createFind;
```

The object of property values to match.

```javascript
var baseIsMatch = require('./_baseIsMatch'),
    getMatchData = require('./_getMatchData'),
    matchesStrictComparable = require('./_matchesStrictComparable');

/**
 * The base implementation of `_.matches` without support for iteratee shorthands.
 *
 * @private
 * @param {Object} source
 * @returns {Function} Returns the new spec function.
 */
function baseMatches(source) {
  var data = getMatchData(source);
  if (data.length == 1 &&
      data[0][2]) {
    return matchesStrictComparable(data[0][0], data[0][1]);
  }
  return function(object) {
    return object === source || baseIsMatch(object, source, data);
  };
}

module.exports = baseMatches;
```

The base implementation of `_.isMatch` without support for iteratee shorthands.

```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;
```

The base implementation of `_.clear` without support for iteratee shorthands.

```javascript
function stackClear() {
  this.__data__ = new ListCache;
  this.size = 0;
}

module.exports = stackClear;
```

The base implementation of `_.delete` which doesn't clone `source`.

```javascript
function stackDelete(key) {
  var data = this.__data__,
      result = data['delete'](key);

  this.size = data.size;
  return result;
}

module.exports = stackDelete;
```

The base implementation of `_.get` which doesn't clone `source`.

```javascript
function stackGet(key) {
  return this.__data__.get(key);
}

module.exports = stackGet;
```

The base implementation of `_.has` which doesn't clone `source`.

```javascript
function stackHas(key) {
  return !this.__data__
    ? false
    : this.__data__['has'](key);
}

module.exports = stackHas;
```

The base implementation of `_.isMatch` which doesn't clone `source`.

```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;
```

The base implementation of `_.get` without support for iteratee shorthands.

```javascript
function stackGet(key) {
  return this.__data__.get(key);
}

module.exports = stackGet;
```

The base implementation of `_.has` without support for iteratee shorthands.

```javascript
function stackHas(key) {
  return !this.__data__
    ? false
    : this.__data__['has'](key);
}

module.exports = stackHas;
```

The base implementation of `_.clear` with support for iteratee shorthands.

```javascript
function stackClear(key, customizer) {
  var data = this.__data__;
  if (customizer) {
    var result = customizer(key, value);
  }
  if (result !== undefined) {
    delete data[key];
  }
}

module.exports = stackClear;
```

The base implementation of `_.delete` with support for iteratee shorthands.

```javascript
function stackDelete(key, customizer) {
  var data = this.__data__;
  if (customizer) {
    var result = customizer(key, value);
  }
  if (result !== undefined) {
    delete data[key];
  }
}

module.exports = stackDelete;
```

The base implementation of `_.get` with support for iteratee shorthands.

```javascript
function stackGet(key, customizer) {
  var data = this.__data__;
  if (customizer) {
    var result = customizer(key, value);
  }
  if (result !== undefined) {
    return result;
  }
}

module.exports = stackGet;
```

The base implementation of `_.has` with support for iteratee shorthands.

```javascript
function stackHas(key, customizer) {
  var data = this.__data__;
  if (customizer) {
    var result = customizer(key, value);
  }
  if (result !== undefined) {
    return result;
  }
}

module.exports = stackHas;
```

The base implementation of `_.clear` without support for iteratee shorthands.

```javascript
function stackClear(key, customizer) {
  var data = this.__data__;
  if (customizer) {
    var result = customizer(key, value);
  }
  if (result !== undefined) {
    delete data[key];
  }
}

module.exports = stackClear;
```

The base implementation of `_.delete` with support for iteratee shorthands.

```javascript
function stackDelete(key, customizer) {
  var data = this.__data__;
  if (customizer) {
    var result = customizer(key, value);
  }
  if (result !== undefined) {
    delete data[key];
  }
}

module.exports = stackDelete;
```

The base implementation of `_.get` with support for iteratee shorthands.

```javascript
function stackGet(key, customizer) {
  var data = this.__data__;
  if (customizer) {
    var result = customizer(key, value);
  }
  if (result !== undefined) {
    return result;
  }
}

module.exports = stackGet;
```

The base implementation of `_.has` with support for iteratee shorthands.

```javascript
function stackHas(key, customizer) {
  var data = this.__data__;
  if (customizer) {
    var result = customizer(key, value);
  }
  if (result !== undefined) {
    return result;
  }
}

module.exports = stackHas;
```
iteratee) {
  var index = -1,
  result = Array(n);
  while (++index < n) {
    result[index] = iteratee(index);
  }
  return result;
}

module.exports = baseTimes;
method references that are verified to be native. */

var DataView = getNative(root, 'DataView');

module.exports = DataView;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_DataView.js
// module id = 637
// module chunks = 0

var Promise = getNative(root, 'Promise');

module.exports = Promise;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_Promise.js
// module id = 638
// module chunks = 0

var Set = getNative(root, 'Set');

module.exports = Set;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_Set.js
// module id = 639
// module chunks = 0

var WeakMap = getNative(root, 'WeakMap');

module.exports = WeakMap;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_WeakMap.js
// module id = 640
// module chunks = 0

var isStrictComparable = require('./_isStrictComparable'),
    keys = require('./keys'),
    fn$ = fn

* Gets the property names, values, and compare flags of `object`.

* `fn` * @private

* `getMatchData` * @param {Object} object The object to query.

* `returns {Array} Returns the match data of `object`.

* `An 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;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_getMatchData.js
// module id = 641
// module chunks = 0

var baseIsEqual = require('./_baseIsEqual'),
    get = require('./get'),
    hasIn = require('./hasIn'),
    isKey = require('./_isKey'),
    isStrictComparable = require('./_isStrictComparable'),
    matchesStrictComparable = require('./_matchesStrictComparable'),
    toKey = require('./_toKey');

/**
 * Converts `func` to a property path function.
 *
 * @private
 * @param {Function} func The function to convert.
 * @returns {Function} Returns the new property path function.
 */
function basePropName(func) {

  var path = func + '';
  return function(object, path) {
    // `object` will be either a property path or a property
    // name, respectively.
    return object[func(path)];
  };
}

module.exports = basePropName;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_basePropName.js
// module id = 642
// module chunks = 0

var memoize = require('./memoize');

/**
 * The base implementation 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;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_memoizeCapped.js
// module id = 643
// module chunks = 0

var rePropName = /[^.\[\]\]+|\[(?:(-\d+(?:\.\d+)?)|(?:(?:(?:[^\\]|\\.)*?)\])|(?:(?:\.|\[\[\]|$))/g;

/**
 * The base implementation of `_.hasIn` without support for deep

The base implementation of `_.findIndex` and `_.findLastIndex` without support for iteratee shorthands.

```javascript
function baseFindIndex(array, predicate, fromIndex, fromRight) {
  var length = array.length,
      index = fromIndex + (fromRight ? 1 : -1);

  while ((fromRight ? index-- : ++index < length)) {
    if (predicate(array[index], index, array)) {
      return index;
    }
  }
  return -1;
}
```

The value to convert.

```javascript
var toNumber = require('./toNumber');

/** Used as references for various `Number` constants. */
var INFINITY = 1 / 0,
    MAX_INTEGER = 1.7976931348623157e+308;

/**
 * Converts `value` to a finite number.
 *
 * @static
 * @memberOf _
 * @since 4.12.0
 * @category Lang
 * @param {*} value The value to convert.
 * @returns {number} Returns the converted number.
 * @example
 *
 * _.toFinite(3.2);
 * // => 3.2
 *
 * _.toFinite(Number.MIN_VALUE);
 * // => 5e-324
 *
 * _.toFinite(Infinity);
 * // => 1.7976931348623157e+308
 *
 * _.toFinite('3.2');
 * // => 3.2
 */
function toFinite(value) {
  if (!value) {
    return value === 0 ? value : 0;
  }
  value = toNumber(value);
  if (value === INFINITY || value === -INFINITY) {
    var sign = (value < 0 ? -1 : 1);
    return sign * MAX_INTEGER;
  }
  return value === value ? value : 0;
}
```

The `_.some` function invoked per iteration.

```javascript
function some(collection, predicate, guard) {
  var func = isArray(collection) ? arraySome : baseSome;
  if (guard && isIterateeCall(collection, predicate, guard)) {
    predicate = undefined;
  }
  return func(collection, baseIteratee(predicate, 3));
}
```

The `_.forEach` function invoked per iteration.

```javascript
function baseEach(array, iteratee) {
  var arrayLength = array ? array.length : 0,
      index = 0,
      length = arrayLength;

  while (index < length) {
    iteratee(array[index], index, array);
    index += 1;
  }
}
```

The function invoked per iteration.

```javascript
function baseForOwn(object, iteratee) {
  return object && baseFor(object, iteratee, keys);
}
```

The function invoked per iteration.

```javascript
function baseIteratee(value, index, object) {
  return typeof value == 'function' ? value(index, object) : value;
}
```
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module.exports = Stream;

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');
Stream.backwardsCompat = function(node, Stream) {
  Stream = Stream || Stream;
  return Stream;
};

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.on('drain', ondrain);
    }
  }
  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', onend);
  // source.on('close', onclose);
  // }
  var didOnEnd = false;
  function onend() {
    if (didOnEnd) return;
    didOnEnd = true;
    if (typeof dest.destroy === 'function') dest.destroy();
  }
  source.on('end', onend);
  source.on('close', onclose);
  // don't leave dangling pipes when there are errors
  function onerror(er) {
    cleanup();
    if (EE.listenerCount(this, 'error') === 0) {
      throw er; // Unhandled stream error
    }
  }
  source.on('error', onerror);
  dest.on('error', onerror);
  source.removeListener('data', ondata);
  dest.removeListener('drain', ondrain);
  source.removeListener('end', onend);
  source.removeListener('close', onclose);
  if (false === dest.write(chunk) && source.pause) {
    source.pause();
  }
  // Allow for unix-like usage: A.pipe(B).pipe(C)
  return dest;
};

function _classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor)) { throw new TypeError("Cannot call a class as a function"); } }

var Buffer = require('safe-buffer').Buffer;
var util = require('util');

function copyBuffer(src, target, offset) {
  src.copy(target, offset);
}

module.exports = function () {
  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; else this.head = entry;
    this.tail = entry;
    ++this.length;
  };

  BufferList.prototype.unshift = function unshift(v) {
    var entry = { data: v, next: this.head };
    if (this.length === 0) this.tail = entry;
    this.head = entry;
    ++this.length;
  };

  BufferList.prototype.shift = function shift() {
    if (this.length === 0) return;
    var ret = this.head.data;
    if (this.length === 1) this.head = this.tail = null;
    else this.head = this.head.next;
    --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 '';
    var p = this.head;
    var ret = '' + p.data;
    while (p = p.next) {
      ret += s + p.data;
    }
    return ret;
  };

  BufferList.prototype.concat = function concat(n) {
    if (this.length === 0) return Buffer.alloc(0);
    if (this.length === 1) return this.head.data;
    var p = this.head;
    var ret = Buffer.allocUnsafe(n >>> 0);
    var i = 0;
    while (p) {
      copyBuffer(p.data, ret, i);
      i += p.data.length;
      p = p.next;
    }
    return ret;
  };

  BufferList.prototype.forEach = function forEach(o) {
    if (typeof o !== 'function') throw new TypeError('callback must be a function');
    var p = this.head;
    var i = 0;
    while (p) {
      o.call(this, p.data, i);
      i += p.data.length;
      p = p.next;
    }
  };

  BufferList.prototype.toString = function toString() {
    return this.constructor.name + '(' + this.length + ');';
  };

  return BufferList;
}();

if (util && util.inspect && util.inspect.custom) {
  module.exports.prototype[util.inspect.custom] = function () {
    var obj = {
      length: this.length
    };
    if (this.length === 0) return '[]';
    return this.constructor.name + '(' + this.length + ')';
  };
};

// WEBPACK FOOTER
// ./node_modules/readable-stream/lib/internal/streams/BufferList.js

var Stream = require('stream-browserify/Stream.js');
var module = require('readable-stream/lib/internal/streams/BufferList.js');
var BufferList = require('readable-stream/lib/internal/streams/BufferList.js');
var util = require('util');
var util.inspect = require('util').inspect;
var Buffer = require('safe-buffer').Buffer;
var assert = require('assert');
nextHandle = 1; // Spec says greater than zero
var tasksByHandle = {};
var currentlyRunningATask = false;
var doc = global.document;
var registerImmediate; // function setImmediate(callback) {
    var functionName = "function\n    var callback = new Function("\n        // Copy function arguments
        var args = new Array(arguments.length - 1);
        for (var i = 0; i < args.length; i++) {
            args[i] = arguments[i + 1];
        }\n    };} // Store and register the task
    var task = { callback: callback, args: args }; tasksByHandle[nextHandle] = task;
    registerImmediate(nextHandle); return nextHandle++;
}

function clearImmediate(handle) {
    delete tasksByHandle[handle];
}

function run(task) {
    var callback = task.callback;
    var args = task.args;
    switch (args.length) {
        case 0:
            callback();
            break;
        case 1:
            callback(args[0]);
            break;
        case 2:
            callback(args[0], args[1]);
            break;
        case 3:
            callback(args[0], args[1], args[2]);
            break;
        default:
            callback.apply(undefined, args);
            break;
    }
}

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.
    if (currentlyRunningATask) {
        // Delay by doing a setTimeout. setTimeout was tried instead, but in Firefox 7 it generated a "too much recursion" error.
        setTimeout(runIfPresent, 0, handle);
    } else {
        var task = tasksByHandle[handle];
        if (task) {
            currentlyRunningATask = true;
            try {
                run(task);
            } finally {
                clearImmediate(handle);
                currentlyRunningATask = false;
            }
        }
    }
}

function installNextTickImplementation() {
    registerImmediate = function(handle) {
        process.nextTick(function () { runIfPresent(handle); });
    };
}

function canUsePostMessage() {
    // The test against `importScripts` prevents this implementation from being installed inside a web worker,
    if (global.postMessage && !global.importScripts) {
        var postMessageIsAsynchronous = true;
        var oldOnMessage = global.onmessage;
        global.onmessage = function() {
            if (event.source === global
                && typeof event.data === "string" &&
                event.data.indexOf(messagePrefix) === 0) {
                runIfPresent(+event.data.slice(messagePrefix.length));
            }
        };
        global.postMessage("", "*");
        global.onmessage = oldOnMessage;
        return postMessageIsAsynchronous;
    }
}

function installPostMessageImplementation() {
    var messageChannel = new MessageChannel();
    messageChannel.port1.onmessage = function(event) {
        var handle = event.data;
        runIfPresent(handle);
    };
    messageChannel.port2.postMessage(0);
}

function installMessageChannelImplementation() {
    var channel = new MessageChannel();
    channel.port1.onmessage = function(event) {
        var handle = event.data;
        runIfPresent(handle);
    };
    channel.port2.postMessage(0);
}

function installReadyStateChangeImplementation() {
    var html = doc.documentElement;
    registerImmediate = function(handle) {
        // Create a <script> element; its readyState change event will be fired asynchronously once it is inserted
        // into the document. Do so, thus queuing up the task. Remember to clean up once it's been called.
        var script = doc.createElement("script");
        script.onreadystatechange = function() {
            runIfPresent(handle);
        };
        html.appendChild(script);
        script.onreadystatechange = null;
        html.removeChild(script);
        html.appendChild(script);
    };
}

function installSetTimeoutImplementation() {
    registerImmediate = function(handle) {
        setTimeout(runIfPresent, 0, handle);
    };
}

function installImmediate(nextHandle) {
    return nextHandle++;
}

function clearImmediate(handle) {
    delete tasksByHandle[handle];
}

function run(task) {
    var callback = task.callback;
    var args = task.args;
    switch (args.length) {
        case 0:
            callback();
            break;
        case 1:
            callback(args[0]);
            break;
        case 2:
            callback(args[0], args[1]);
            break;
        case 3:
            callback(args[0], args[1], args[2]);
            break;
        default:
            callback.apply(undefined, args);
            break;
    }
}

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.
    if (currentlyRunningATask) {
        // Delay by doing a setTimeout. setTimeout was tried instead, but in Firefox 7 it generated a "too much recursion" error.
        setTimeout(runIfPresent, 0, handle);
    } else {
        var task = tasksByHandle[handle];
        if (task) {
            currentlyRunningATask = true;
            try {
                run(task);
            } finally {
                clearImmediate(handle);
                currentlyRunningATask = false;
            }
        }
    }
}

function installNextTickImplementation() {
    registerImmediate = function(handle) {
        process.nextTick(function () { runIfPresent(handle); });
    };
}

function canUsePostMessage() {
    // The test against `importScripts` prevents this implementation from being installed inside a web worker,
    if (global.postMessage && !global.importScripts) {
        var postMessageIsAsynchronous = true;
        var oldOnMessage = global.onmessage;
        global.onmessage = function() {
            if (event.source === global
                && typeof event.data === "string" &&
                event.data.indexOf(messagePrefix) === 0) {
                runIfPresent(+event.data.slice(messagePrefix.length));
            }
        };
        global.postMessage("", "*");
        global.onmessage = oldOnMessage;
        return postMessageIsAsynchronous;
    }
}

function installPostMessageImplementation() {
    var messageChannel = new MessageChannel();
    messageChannel.port1.onmessage = function(event) {
        var handle = event.data;
        runIfPresent(handle);
    };
    messageChannel.port2.postMessage(0);
}

function installMessageChannelImplementation() {
    var channel = new MessageChannel();
    channel.port1.onmessage = function(event) {
        var handle = event.data;
        runIfPresent(handle);
    };
    channel.port2.postMessage(0);
}

function installReadyStateChangeImplementation() {
    var html = doc.documentElement;
    registerImmediate = function(handle) {
        // Create a <script> element; its readyState change event will be fired asynchronously once it is inserted
        // into the document. Do so, thus queuing up the task. Remember to clean up once it's been called.
        var script = doc.createElement("script");
        script.onreadystatechange = function() {
            runIfPresent(handle);
        };
        html.removeChild(script);
        script = null;
        html.appendChild(script);
    };
}

function installSetTimeoutImplementation() {
    registerImmediate = function(handle) {
        setTimeout(runIfPresent, 0, handle);
    };
}

function installImmediate(nextHandle) {
    return nextHandle++;
}

function clearImmediate(handle) {
    delete tasksByHandle[handle];
}

function run(task) {
    var callback = task.callback;
    var args = task.args;
    switch (args.length) {
        case 0:
            callback();
            break;
        case 1:
            callback(args[0]);
            break;
        case 2:
            callback(args[0], args[1]);
            break;
        case 3:
            callback(args[0], args[1], args[2]);
            break;
        default:
            callback.apply(undefined, args);
            break;
    }
}

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.
    if (currentlyRunningATask) {
        // Delay by doing a setTimeout. setTimeout was tried instead, but in Firefox 7 it generated a "too much recursion" error.
        setTimeout(runIfPresent, 0, handle);
    } else {
        var task = tasksByHandle[handle];
        if (task) {
            currentlyRunningATask = true;
            try {
                run(task);
            } finally {
                clearImmediate(handle);
                currentlyRunningATask = false;
            }
        }
    }
}

function installNextTickImplementation() {
    registerImmediate = function(handle) {
        process.nextTick(function () { runIfPresent(handle); });
    };
}

function canUsePostMessage() {
    // The test against `importScripts` prevents this implementation from being installed inside a web worker,
    if (global.postMessage && !global.importScripts) {
        var postMessageIsAsynchronous = true;
        var oldOnMessage = global.onmessage;
        global.onmessage = function() {
            if (event.source === global
                && typeof event.data === "string" &&
                event.data.indexOf(messagePrefix) === 0) {
                runIfPresent(+event.data.slice(messagePrefix.length));
            }
        };
        global.postMessage("", "*");
        global.onmessage = oldOnMessage;
        return postMessageIsAsynchronous;
    }
}

function installPostMessageImplementation() {
    var messageChannel = new MessageChannel();
    messageChannel.port1.onmessage = function(event) {
        var handle = event.data;
        runIfPresent(handle);
    };
    messageChannel.port2.postMessage(0);
}

function installMessageChannelImplementation() {
    var channel = new MessageChannel();
    channel.port1.onmessage = function(event) {
        var handle = event.data;
        runIfPresent(handle);
    };
    channel.port2.postMessage(0);
}

function installReadyStateChangeImplementation() {
    var html = doc.documentElement;
    registerImmediate = function(handle) {
        // Create a <script> element; its readyState change event will be fired asynchronously once it is inserted
        // into the document. Do so, thus queuing up the task. Remember to clean up once it's been called.
        var script = doc.createElement("script");
        script.onreadystatechange = function() {
            runIfPresent(handle);
        };
        html.removeChild(script);
        script = null;
        html.appendChild(script);
    };
}

function installSetTimeoutImplementation() {
    registerImmediate = function(handle) {
        setTimeout(runIfPresent, 0, handle);
    };
}
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 non-IE10 modern browsers\n    installPostMessageImplementation();\n  } else if (global.MessageChannel) {\n    // For web workers, where supported\n    installMessageChannelImplementation();\n  } else if (doc && doc.readyStatechange) {\n    doc.createElement("script").type = "text/javascript";\n    doc.onreadystatechange = function() {\n      if (doc.readyState == "complete") {\n        // For IE 6–8\n        installReadyStateChangeImplementation();\n      } else if (typeof global === "object") {\n        if ({}.toString.call(global.process) === "[object process]") {\n          // For Node.js before 0.9\n          installNextTickImplementation();\n        } else if (canUsePostMessage()) {\n          // For non-IE10 modern browsers\n          installPostMessageImplementation();\n        } else if (global.MessageChannel) {\n          // For web workers, where supported\n          installMessageChannelImplementation();\n        } else if (doc && doc.readyStatechange) {\n          doc.createElement("script").type = "text/javascript";\n          doc.onreadystatechange = function() {\n            if (doc.readyState == "complete") {\n              // For IE 6–8\n              installReadyStateChangeImplementation();\n            } else {\n              // For older browsers\n              installSetTimeoutImplementation();\n            }\n          }\n          attachTo.setImmediate = setImmediate;
          attachTo.clearImmediate = clearImmediate;\n        } else if (canUsePostMessage()) {\n          // For non-IE10 modern browsers\n          installPostMessageImplementation();\n        } else {\n          // For older browsers\n          installSetTimeoutImplementation();\n        }\n      } else {\n        // For older browsers\n        installSetTimeoutImplementation();\n      }\n    }\n  }\n}

//////////////////
// WEBPACK FOOTER
// ./node_modules/setimmediate/setImmediate.js
// module id = 665
// module chunks = 0
/**
 * Module exports.
 */

module.exports = deprecate;

/**
 * Mark that a method should not be used.
 * Returns a modified function which warns once by default.\n * @param {Function} fn - the function to deprecate\n * @param {String} msg - the string to print to the console when `fn` is invoked\n * @returns {Function} a new "deprecated" version of `fn`\n * @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';
}


//////////////////
// WEBPACK FOOTER
// ./node_modules/util-deprecate/browser.js
// module id = 666
// module chunks = 0

// a passthrough stream.
// basically just the most minimal sort
// of Transform stream.\n// Every written chunk gets output as-is.\n//\nmodule.exports = require('./lib/_stream_writable.js');


//////////////////
// WEBPACK FOOTER
// ./node_modules/readable-stream/lib/_stream_passthrough.js
// module id = 667
// module chunks = 0
/**
 * Copyright Joyent, Inc. and other Node contributors.\n// Inspiration is hereby granted, free of charge, to any person obtaining a copy of this software
and associated documentation files (the\n* "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 others to do so, subject to the following conditions:\n\nThe above copyright notice and this permission notice shall be included in all copies or
substantial portions of the Software.\n
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.
*/

// this module exports a PassThrough stream
// that just forwards all the data through

'use strict';

module.exports = function PassThrough(options) {
  var Transform = require('./lib/_stream_transform.js');
  var TransformStream = require('./lib/_stream_transform.js');
  var util = require('core-util-is');
  var inherit = require('util').inherits;
  var Stream = require('stream');
  var inherits = require('util').inherits;

  if (options && options.objectMode) {
    var _write = Transform.prototype._write;
    Transform.prototype._write = function (chunk, encoding, cb) {
      _write.call(this, chunk, encoding, cb);
    }
  }

  return Transform.call(this, options);
};


var assign            = require("../object/assign")
  , isObject          = require("../object/is-object")
  , isValue           = require("../object/is-value")
  , captureStackTrace = Error.captureStackTrace;

exports = module.exports = function (message /*, code, ext*/) {
  var err = new Error(message), code = arguments[1], ext = arguments[2];
  if (!isValue(ext)) {
    if (isObject(code)) {
      err = code;
      code = null;
    }
  }
  if (isValue(ext)) assign(err, ext);
  if (isValue(code)) err.code = code;
  if (captureStackTrace) captureStackTrace(err, exports);
  return err;
};

var keys  = require("../keys")
  , value = require("../valid-value")
  , max   = Math.max;

module.exports = function (dest, src /*, …srcn*/) {
  var error, i, length = max(arguments.length, 2), assign;
  dest = Object(value(dest));
  assign = function (key) {
    try {
      dest[key] = src[key];
    } catch (e) {
      if (!error) error = e;
    }
  }; 
  for (i = 1; i < length; ++i) {
    src = arguments[i];
    keys(src).forEach(assign);
  }
  if (error !== undefined) throw error;
  return dest;
};

var map = { function: true, object: true };

module.exports = function (value) {
  return (isValue(value) && map[typeof value]) || false;
};
function (arrayLike /*, mapFn, thisArg*/) {
  var mapFn = arguments[1] || thisArg = arguments[2] ||
  Context /*, n, j, arr, length, code, iterator, result, getIterator, arrayLike = Object(validValue(arrayLike)); */
  i
  , j
  , arr
  , length
  , code
  , iterator
  , result
  , getIterator
  ,
  value
  , arrayLike
  , Object(validValue(arrayLike))
  , isValue(mapFn)
  , callable(mapFn)
  , isArguments(arrayLike)
  , Source
  , arguments
  , arrayLike
  , new Array(1)
  , arr
  , arrayLike[0];

  arrayLike = Object(validValue(arrayLike));

  if (isValue(mapFn))
    callable(mapFn);
  if (!this || this
    === Array || !isFunction(this)) {
    // Result: Plain array
    if (!mapFn) {
      // Source: Arguments
      length = arrayLike.length;
      if (length !== 1) return Array.apply(null, arrayLike);
      arr = new Array(1);
      arr[0] = arrayLike[0];
      return arr;
    }
    if (isArray(arrayLike)) {
      // Source: Array
      arr = new Array(length = arrayLike.length);
      for (i = 0; i < length; ++i) arr[i] = arrayLike[i];
      return arr;
    }
    arr = [];
    else {
      // Result: Non plain
      Context = this;
    }

    if (!isArray(arrayLike)) {
      if ((getIterator = arrayLike[iteratorSymbol]) !==
        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 = arrayLike[i];
          if (i + 1 < length) {
            code = value.charCodeAt(0);
            // eslint-disable-next-line max-depth
            if (code >= 0xd800 && code <= 0xdbff) value +=
              arrayLike[++i];
          }
          value = mapFn ?
            call.call(mapFn, thisArg, value, j) : value;
          if (Context)
            desc.value = value;
          defineProperty(arr, j, desc);
        }
        length = j;
      }
    }
    if (length === undefined) {
      // Source: array or
      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);
      }
    }
    if (Context) {
      desc.value = null;
      arr.length = length;
    }
    return
  ;
}

module.exports = require('./is-implemented')() ? Symbol :
require('./polyfill');

var validTypes = { object: true, symbol: true
};

module.exports = function () {
  var symbol;
  if (typeof Symbol !== 'function') return false;
  try {
    symbol = Symbol('test symbol');
    String(symbol); return false;
  } 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;
};

var d              = require('d')
, validateSymbol = require('./validate-symbol')

  , create = Object.create, defineProperties =
  Object.defineProperties, NativeSymbol, globalSymbols = create(null)
, isNativeSafe;

if (typeof
  Symbol === 'function') {
  NativeSymbol = Symbol;
  try {
    String(NativeSymbol());
    isNativeSafe =
      true;
  } catch (ignore) {} isNativeSafe =
true;

  catch (ignore) {
    var create = create(null);
    function (desc) {
      var postfix = 0, name, ie11BugWorkaround;
      return function (desc, create) {
        var generateName =
          function () {
            var created = create(null);
            return
          };
        if (!validTypes[typeof Symbol.prototype]) return false;
        if (!validTypes[typeof Symbol.toPrimitive]) return false;
        if (!validTypes[typeof Symbol.toStringTag]) return false;
        var isArray =
          function (desc) {
            var postix = 0
            ++postfix;:
            if (!desc) {
              return true;
            }
          };
        return function (desc) {
          var created =
            create(null);
          return
        };
      };
    };
  };

  ie11BugWorkaround =
    function (desc) {
      var created = create(null);
      return
    };
  };

  // ES2015 Symbol polyfill for environments that do not (or partially) support it
  var
    validateSymbol = require('./validate-symbol')
, Symbol
  , create = Object.create, defineProperties =
  Object.defineProperties, NativeSymbol, globalSymbols = create(null)
, isNativeSafe;

  if (typeof
  Symbol === 'function') {
  NativeSymbol = Symbol;
  try {
    String(NativeSymbol());
    isNativeSafe =
      true;
  } catch (ignore) {} isNativeSafe =
true;

  catch (ignore) {
    var create = create(null);
    function (desc) {
      var postix = 0, name, ie11BugWorkaround;
      return function (desc, create) {
        var generateName =
          function () {
            var created = create(null);
            return
          };
        if (!validTypes[typeof Symbol.prototype]) return false;
        if (!validTypes[typeof Symbol.toPrimitive]) return false;
        if (!validTypes[typeof Symbol.toStringTag]) return false;
        var isArray =
          function (desc) {
            var postix = 0
            ++postfix;:
            if (!desc) {
              return true;
            }
          };
        return function (desc) {
          var created =
            create(null);
          return
        };
      };
    };
  };

  ie11BugWorkaround =
    function (desc) {
      var created = create(null);
      return
    };
  };

  // WEBPACK FOOTER
  // node_modules/es5-ext/array/from/shim.js
  module id = 694
  ;
  // WEBPACK FOOTER
  // node_modules/es6-symbol/index.js
  module id = 695
  ;
  // WEBPACK FOOTER
  // node_modules/es6-symbol/is-implemented.js
  module id = 696
  ;
constructor');\n\treturn SymbolPolyfill(description);\n\n\n// Exposed `Symbol` constructor\n// (returns instances of\nHiddenSymbol.prototype).\nmodule.exports = SymbolPolyfill = function SymbolPolyfill(description) {\n  var symbol;\n  \n  if (this instanceof Symbol) throw new TypeError('Symbol is not a constructor');\n  \n  isNativeSafe = description;\n  \n  var symbol = create(HiddenSymbol.prototype);\n  \n  try {\n    description = (description === undefined ? '' : String(description));\n  } catch (err) {\n    return null;\n  }\n  \n  definePropertiesSymbolPolyfill\n    (SymbolPolyfill, {\n      
      constructor: function (key) {\n        return globalSymbols[key];\n      },\n      
      toPrimitive: function () {\n        return validateSymbol(this);\n      },\n      
      toObject: function () {\n        return validateSymbol(this);\n      }\n    });\n  \n  // Use an object with a constructor\n  // that looks like a Symbol\n  \n  var prototype = new SymbolPolyfill('');\n  \n  defineProperties(prototype, {\n    
    constructor: SymbolPolyfill,\n    
    toObject: function () {\n      return validateSymbol(this);\n    },\n    
    toStringTag: SymbolPolyfill.prototype.toStringTag\n  });\n  \n  // Proper implementation of methods exposed on Symbol.prototype\n  // They won't be accessible on produced symbol instances as they derive from\nHiddenSymbol.prototype\n  \n  definePropertiesSymbolPolyfill\n    (SymbolPolyfill.prototype, {\n      
      toString: function () {\n        return 'Symbol(' + validateSymbol(this).__description__ + ')';\n      },\n      
      valueOf: function () {\n        return validateSymbol(this);\n      },\n      
      toObject: function () {\n        return validateSymbol(this);\n      }\n    });\n  \n  return symbol;\n\nfunction SymbolPolyfill(description) {
  var symbol, isNativeSafe = description;\n  \n  if (this instanceof Symbol) throw new TypeError('Symbol is not a constructor');\n  \n  isNativeSafe = description;\n  \n  var symbol = create(HiddenSymbol.prototype);\n  \n  try {\n    description = (description === undefined ? '' : String(description));\n  } catch (err) {\n    return null;\n  }\n  \n  definePropertiesSymbolPolyfill\n    (SymbolPolyfill, {\n      
      constructor: function (key) {\n        return globalSymbols[key];\n      },\n      
      toPrimitive: function () {\n        return validateSymbol(this);\n      },\n      
      toObject: function () {\n        return validateSymbol(this);\n      }\n    });\n  \n  // Use an object with a constructor\n  // that looks like a Symbol\n  \n  var prototype = new SymbolPolyfill('');\n  \n  defineProperties(prototype, {\n    
    constructor: SymbolPolyfill,\n    
    toObject: function () {\n      return validateSymbol(this);\n    },\n    
    toStringTag: SymbolPolyfill.prototype.toStringTag\n  });\n  \n  // Proper implementation of methods exposed on Symbol.prototype\n  // They won't be accessible on produced symbol instances as they derive from\nHiddenSymbol.prototype\n  \n  definePropertiesSymbolPolyfill\n    (SymbolPolyfill.prototype, {\n      
      toString: function () {\n        return 'Symbol(' + validateSymbol(this).__description__ + ')';\n      },\n      
      valueOf: function () {\n        return validateSymbol(this);\n      },\n      
      toObject: function () {\n        return validateSymbol(this);\n      }\n    });\n  \n  return symbol;
"use strict";

var aFrom = require("es5-ext/array/#/a-from")
  , objectMap = require("es5-ext/object/map")
  , defineLength = require("es5-ext/function_/define-length")
  , nextTick = require("next-tick")
  , hasOwnProperty = Object.prototype.hasOwnProperty;

function wait(event) {
  var lastId = 0, map = [{}, {}], cache = create(null);
  return {
    get: function (args) {
      var id = event.id;
      if (id !== undefined) {
        map = []; cache = [];
      }
      return {
        get: function (args) {
          var id = event.id;
          return {
            get: function (args) {
              var id = event.id;
              return {
                get: function (args) {
                  var id = event.id;
                  return {
                    get: function (args) {
                      var id = event.id;
                      return {
                        get: function (args) {
                          var id = event.id;
                          return {
                            get: function (args) {
                              var id = event.id;
                              return {
                                get: function (args) {
                                  var id = event.id;
                                  return {
                                    get: function (args) {
                                      var id = event.id;
                                      return {
                                        get: function (args) {
                                          var id = event.id;
                                          return {
                                            get: function (args) {
                                              var id = event.id;
                                              return {
                                                get: function (args) {
                                                  var id = event.id;
                                                  return {
                                                    get: function (args) {
                                                      var id = event.id;
                                                      return {
                                                        get: function (args) {
                                                          var id = event.id;
                                                          return {
                                                            get: function (args) {
                                                              var id = event.id;
                                                              return {
                                                                get: function (args) {
                                                                  var id = event.id;
                                                                  return {
                                                                    get: function (args) {
                                                                      var id = event.id;
                                                                      return {
                                                                        get: function (args) {
                                                                          var id = event.id;
                                                                          return {
                                                                            get: function (args) {
                                                                              var id = event.id;
                                                                              return {
                                                                            } // Purged in a meantime, we shouldn’t rely on cached value, recall
                                                                            currentCallback = cb;
                                                                            currentContext = context;
                                                                            currentArgs = args;
                                                                            base.apply(context, args);
                                                                          }
                                                                        }
                                                                      }
                                                                    }
                                                                  }
                                                                }
                                                              }
                                                            }
                                                          }
                                                        }
                                                      }
                                                    }
                                                  }
                                                }
                                              }
                                            }
                                          }
                                        }
                                      }
                                    }
                                  }
                                }
                              }
                            }
                          }
                        }
                      }
                    }
                  }
                }
              }
            }
          }
        }
      }
    }
  };
};

module.exports = wait;

FOOTER
Open Source Used In MSX SD-WAN Service Pack 4.0.0 20509
recommended, as it may mute any eventual "Unhandled error" events if (typeof promise.done !== "function") {
  throw new Error(
    "Memoizee error: Retrieved promise does not implement 'done'"
  );
}

promise.done(onSuccess, onFailure);

if (resolvedMode === "done:finally") {
  promise.done(onSuccess, onFailure);
  promise.finally(onFailure);
}

conf.on("get", function (id, args, context) {
  var promise, emit;
  if (waiting[id]) {
    ++waiting[id]; // Still waiting
    return;
  }
  promise = promises[id];
  emit = function () {
    conf.emit("getasync", id, args, context);
  };
  if (isPromise(promise)) {
    if (typeof promise.done === "function") promise.done(emit);
    else {
      promise.then(function () {
        nextTick(emit);
      });
    }
  } else {
    emit();
  }
});

conf.on("delete", function (id) {
  delete promises[id];
  if (waiting[id]) {
    delete waiting[id]; // Not yet resolved
    return;
  }
  if (!hasOwnProperty.call(cache, id)) return;
  var result = cache[id];
  delete cache[id];
  conf.emit("deleasync", id, [result]);
});

conf.on("clear", function () {
  var oldCache = cache;
  cache = create(null);
  waiting = create(null);
  promises = create(null);
  conf.emit("clearasync", 
    Object.keys(cache)
    .map(function (data) {
      return [data];
    })
    .join(
      ",
    )
  );

  conf.emit("clearasync",
    Object.keys(oldCache)
    .map(function (data) {
      return [data];
    })
    .join(
      ",
    )
  );
});

function (arg /*, …args*/) {
  var set = create(null);
  forEach.call(arguments, function (name) {
    set[name] = true;
  });
  return set;
}
```javascript
module.exports = function (value) {
    value = toPosInt(value);
    if (value > maxTimeout) throw new TypeError(value + " exceeds maximum possible timeout");
    return value;
};
```

```javascript
var toPosInteger = require("es5-ext/number/to-pos-integer")
  , lruQueue     = require("lru-queue")
  , extensions   = require("../lib/registered-extensions");

extensions.maxAge = function (max, conf, options) {
    var postfix, queue, hit;

    max = toPosInteger(max);
    if (!max) return;

    queue = lruQueue(max);
    postfix = (options.async && extensions.async) || (options.promise && extensions.promise)
        ? "async" : "";

    conf.on("set" + postfix, hit = function (id) {
        id = queue.hit(id);
        if (id === undefined) return;
        conf.delete(id);
    });
    conf.on("get" + postfix, hit);
    conf.on("delete" + postfix, queue.delete);
    conf.on("clear" + postfix, queue.clear);
    conf.on("set" + postfix, function (id) {
        if (id === undefined) return;
        conf.conf.delete(id);
    });
    conf.on("clear" + postfix, queue.clear);
    conf.on("set" + postfix, function (id) {
        if (id === undefined) return;
        conf.conf.delete(id);
    });
};
```

```javascript
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);
                return id;
            }
            delete queue[oldIndex];
            if (base !== oldIndex) return;
            while (!hasOwnProperty.call(queue, ++base)) continue;
        },
        delete: del = function (id) {
            var oldIndex = map[id];
            if (!oldIndex) return;
            delete queue[oldIndex];
            delete map[id];
            if (base !== oldIndex) return;
            if (!size) {
                index = 0;
                base = 1;
                return;
            }
            while (!hasOwnProperty.call(queue, ++base)) continue;
        },
        clear: function () {
            size = 0;
            base = 1;
            queue = create(null);
            map = create(null);
            index = 0;
        }
    };
}

\\\\\\\
// WEBPACK FOOTER
// ./node_modules/lru-queue/index.js
// module id = 724
// module chunks = 0

"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)
        ? "async" : "";

    conf.on("set" + postfix, function (id, length) {
        cache[id] = length || 1;
    });
    conf.on("get" + postfix, function (id) {
        ++cache[id];
    });
    conf.on("delete" + postfix, function (id) {
        delete cache[id];
    });
    conf.on("clear" + postfix, function () {
        cache = {};
    });

    defineProperties(conf.memoized, {
        deleteRef: d(function () {
            var id = conf.get(arguments);
            if (id === null) return null;
            if (!cache[id]) return null;
            if (!--cache[id]) {
                conf.delete(id);
                return true;
            }
            return false;
        }),
        getRefCount: d(function () {
            var id = conf.get(arguments);
            if (id === null) return 0;
            if (!cache[id]) return 0;
            return cache[id];
        })
    });
}

\\\\\\\
// WEBPACK FOOTER
// ./node_modules/memoizee/ext/ref-counter.js
// module id = 725
// module chunks = 0

/*! https://mths.be/cssescape v1.5.1 by @mathias | MIT license */
( function(root, factory) {
    // https://github.com/umdjs/umd/blob/master/returnExports.js
    if (typeof exports == 'object') {
        // For Node.js.
        module.exports = factory(root);
    } else if (typeof define == 'function' && define.amd) {
        // For AMD. Register as an anonymous module.
        define([], factory.bind(root, root));
    }
    else {
        // For browser globals (not exposing the function separately).
        factory(root);
    }
}((typeof global != 'undefined' ? global : this), function(root) {

    if (root.CSS && root.CSS.escape) {
        return root.CSS.escape;
    }

    // https://drafts.csswg.org/#serialize-an-identifier
    var cssEscape = function(value) {
        if (arguments.length == 0) {
            throw new TypeError('`CSS.escape` requires an argument.');
        }
        var string = String(value);
        var length = string.length;
        var index = -1;
        var codeUnit;
        while (++index < length) {
            codeUnit = string.charCodeAt(index);
            // Note: there's no need to special-case astral symbols,
            // surrogate pairs, or lone surrogates.
            if (codeUnit >= 0x80) {
                result += escapeCharAt(index);
            }
        }
        return result;
    };
(U+0030 to U+0039), [A-Z] (U+0041 to U+005A), or [a-z] (U+0061 to U+007A). 

```javascript
if (codeUnit >= 0x0080 || codeUnit == 0x002D || codeUnit == 0x005F ||
    codeUnit >= 0x0030 && codeUnit <= 0x0039 ||
    codeUnit >= 0x0041 && codeUnit <= 0x005A ||
    codeUnit >= 0x0061 && codeUnit <= 0x007A) {
    result += string.charAt(index);
    continue;
}

// Otherwise, the escaped character.
result += '\\' + string.charAt(index);
```

```javascript
import OAS3Plugin from "../plugins/oas3"

// Just the base, for now.
export default function PresetApis() {
  return [
    BasePreset,
    OAS3Plugin
  ];
}

// WEBPACK FOOTER //
// ./node_modules/css.escape/css.escape.js
// module id = 726
// module chunks = 0
Open Source Used In MSX SD-WAN Service Pack 4.0.0  

```
import Model from "core/components/model"
import Models from "core/components/models"
import EnumModel from "core/components/enum-model"
import ObjectModel from "core/components/object-model"
import ArrayModel from "core/components/array-model"
import PrimitiveModel from "core/components/primitive-model"
import Property from "core/components/property"
import TryItOutButton from "core/components/try-it-out-button"
import VersionPragmaFilter from "core/components/version-pragama-filter"
import VersionStamp from "core/components/version-stamp"
import DeepLink from "core/components/deep-link"
import SvgAssets from "core/components/svg-assets"

import Markdown from "core/components/providers/markdown"

import BaseLayout from "core/components/layouts/base"

import * as LayoutUtils from "core/components/layout-utils"
import * as JsonSchemaComponents from "core/json-schema-components"

export default function()
{
  let coreComponents = {
    components: {
      App,
      authorizationPopup: AuthorizationPopup,
      authorizeBtn: AuthorizeBtn,
      AuthorizeBtnContainer,
      authorizeOperationBtn: AuthorizeOperationBtn,
      auths: Auths,
      AuthItem: AuthItem,
      clear: Clear,
      liveResponse: LiveResponse,
      info: Info,
      InfoContainer,
      JumpToPath,
      onlineValidatorBadge: OnlineValidatorBadge,
      operations: Operations,
      operation: Operation,
      OperationExt,
      OperationExtRow,
      operationsSummary: OperationSummary,
      OperationSummaryMethod,
      OperationSummaryPath,
      highlightCode: HighlightCode,
      responses: Responses,
      response: Response,
      responseBody:ResponseBody,
      parameters: Parameters,
      parameterRow: ParameterRow,
      execute: Execute,
      headers: Headers,
      errors: Errors,
      contentType: ContentType,
      overview: Overview,
      footer: Footer,
      FilterContainer,
      ParamBody: ParamBody,
      curl: Curl,
      schemes: Schemes,
      SchemesContainer,
      modelExample: ModelExample,
      ModelWrapper,
      ModelCollapse,
      Model,
      Models,
      EnumModel,
      ObjectModel,
      ArrayModel,
      PrimitiveModel,
      Property,
      TryItOutButton,
      Markdown,
      BaseLayout,
      VersionPragmaFilter,
      VersionStamp,
      OperationExt,
      ParameterExt,
      ParameterIncludeEmpty,
      OperationTag,
      deepLinkingPlugin,
      filter,
      onComplete,
      
    }
  }

  let formComponents = {
    components: LayoutUtils
  }

  let jsonSchemaComponents = {
    components: JsonSchemaComponents
  }

  return [
    configsPlugin,
    util,
    logs,
    view,
    spec,
    err,
    layout,
    samples,
    coreComponents,
    formComponents,
    swaggerJs,
    jsonSchemaComponents,
    auth,
    downloadUrlPlugin,
    deepLinkingPlugin,
    filter,
    onComplete,
    
  ];
```
implementation of `_.reduce` and `_.reduceRight`, without support for iteratee shorthands, which iterates over `collection` using `eachFunc`:

```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;`

---

```
// WEBPACK FOOTER
// ./node_modules/lodash/_baseReduce.js
// module id = 730
// module chunks = 0
```

```
// WEBPACK FOOTER
// ./node_modules/babel-runtime/core-js/array/from.js
// module id = 731
// module chunks = 0
```

```
// WEBPACK FOOTER
// ./node_modules/core-js/library/fn/array/from.js
// module id = 732
// module chunks = 0
```

```
// WEBPACK FOOTER
// ./node_modules/_core.js
// module id = 733
// module chunks = 0
```

```
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/es6.array.from.js
// module id = 734
// module chunks = 0
```

```
// WEBPACK FOOTER
// ./node_modules/core-js/library/fn/promise.js
// module id = 735
// module chunks = 0
```

---

**Open Source Used In MSX SD-WAN Service Pack 4.0.0 20515**
function () {

  // strange IE + webpack dev server bug - use .call(global)
  macroTask.call(global, flush);
}


return function (fn) {
  var task = {
    fn: fn,
    next: undefined
  }

  if (last)
    last.next = task;

  if (!head)
    { head = task; notify(); } last = task;
}


function () {
  // strange IE + webpack dev server bug - use .call(global)
  macrotask.call(global, flush);

  return function (fn) {
    var task = { fn: fn, next: undefined };
    if (last) last.next = task;
    if (!head) { head = task; notify(); } last = task;
}


//////////////////
// WEBPACK FOOTER
//.SaveChangesAsync/Staff\n
$.node_modules/core-js/library/modules/_microtask.js
// module id = 738

/module chunks = 0","/

https://github.com/tc39/proposal-promise-finally

'use strict';

var $export = require('./_export');

var core = require('./_core');

var global = require('./_global');

var speciesConstructor = require('./_species-constructor');

var promiseResolve = require('./_promiseresolve');

$export($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
  );
} });


//////////////////
// WEBPACK FOOTER
// .node_modules/core-js/library/modules/es7.promise.finally.js
// module id = 739

/module chunks = 0","/

https://github.com/tc39/proposal-promise-try

'use strict';

var $export = require('./_export');

var newPromiseCapability = require('./_new-promise-capability');

var perform = require('./_perform');

$export($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;
} });


//////////////////
// WEBPACK FOOTER
// ./node_modules/regenerator-runtime/runtime-module.js
// module id = 741

/**
 * Copyright (c) 2014-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.
 */

!(function(global) {

  "use strict";

  var Op = Object.prototype;

  var hasOwn = Op.hasOwnProperty;

  var undefined; // More compressible than void 0.

  var $Symbol = typeof Symbol === "function" ? Symbol : {};

  var iteratorSymbol = $Symbol.iterator || "@@iterator";

  var asyncIteratorSymbol = $Symbol.asyncIterator || "@@asyncIterator";

  var toStringTagSymbol = $Symbol.toStringTag || "@@toStringTag";

  var inModule = typeof module === "object";

  var runtime = global.regeneratorRuntime;

  if (runtime) {
    if (inModule) {
      // If regeneratorRuntime is defined globally and we're in a module,
      // make the exports object identical to regeneratorRuntime.

      module.exports = require('./runtime.js');

      module.exports = undefined;

      module.exports = require('./runtime.js');

      module.exports = undefined;

      if (typeof module.exports === "undefined") { runtime = undefined; }
    } else { runtime = undefined; }
  }

  // Restore the original runtime if the runtime was never defined in a module.

  try {
    delete g.regeneratorRuntime;
  } catch (err) {
    g.regeneratorRuntime = undefined;
  }

  WEBPACK FOOTER
context.tryEntries[i].completion. This interface could've // have been (and was previously) designed to take a closure
to be \n // invoked without arguments, but in all the cases we care about we\n // already have an existing method we
want to call, so there's no need\n // to create a new function object. We can even go away with assuming\n // the method takes exactly one argument, since that happens to be true\n // in every case, so we don't have to touch the arguments object. The\n // only additional allocation required is the completion record, which\n // has a stable shape and so hopefully should be cheap to allocate.\n function tryCatch(fn, obj, arg) {\n try {\n return { type: \n  "normal",\n  arg: fn.call(obj, arg) };\n } \n catch (err) {\n return { type: \n  "throw",\n  arg: err };\n }\n }\n var \n GenStateSuspendedStart = \n  "suspendedStart";\n var GenStateSuspendedYield = \n  "suspendedYield";\n var GenStateExecuting = \n  "executing";\n var GenStateCompleted = \n  "completed";\n // Returning this object from the insideFn has the same effect as\n // breaking out of the dispatch switch statement.\n var ContinueSentinel = \n  {}\n // Dummy constructor functions that we use as the .constructor and\n // .constructor.prototype properties for functions that return Generator\n // objects. For full spec compliance, you may wish to configure your\n // minifier not to mangle the names of these two functions.\n function Generator() {\n function GeneratorFunction() {\n }\n function GeneratorFunctionPrototype() {\n // This is a polyfill for %IteratorPrototype% for environments that\n // don't natively support it.\n var IteratorPrototype = { \n  \n  return this;\n };\n var getProto = Object.getPrototypeOf;\n var NativeIteratorPrototype = getProto &&
  getProto.getPrototypeOf(values([]));\n if (NativeIteratorPrototype &&
    NativeIteratorPrototype !== Op &&
    hasOwn.call(NativeIteratorPrototype, iteratorSymbol)) {\n // This environment has a native %IteratorPrototype%; use it instead\n // of the polyfill.\n IteratorPrototype = NativeIteratorPrototype;\n }\n var \n gp = GeneratorFunctionPrototype.prototype = \n  Generator.prototype = Object.create(IteratorPrototype);\n \n GeneratorFunctionPrototype.prototype = \n  GeneratorFunction;\n GeneratorFunctionPrototype[toStringTagSymbol] =\n  GeneratorFunction.displayName = \"GeneratorFunction\";\n // Helper for defining the .next, .throw, and \n  .return methods of the\n // _Iterator interface in terms of a single ._invoke method.\n function defineIteratorMethods(prototype) {\n [\n  \"next\", \"throw\", \"return\"]\n}.forEach(function(method) {\n \n function\n  [\n    method = function(arg) {\n      return this._invoke(method, arg);\n    }\n  }\n} \n runtime.isGeneratorFunction = function(genFun) {\n \n var ctor = typeof genFun === \"function\" &&
  genFun.constructor;\n return ctor ? ctor === GeneratorFunction ||
    (ctor.displayName || ctor.name) === \"GeneratorFunction\" : false;\n }\n runtime.mark = function(genFun) {\n if (Object.setPrototypeOf) {\n  \n  } else {\n  GenFunctionPrototype.prototype = GeneratorFunctionPrototype;\n  if (typeof genFun[toStringTagSymbol] !== \"GeneratorFunction\") {\n    genFun[toStringTagSymbol] = \"GeneratorFunction\";\n  }\n  \n  return genFun.prototype = Object.create(Gp);\n} \n // Within the body of any async function, 'await x' is transformed to\n // 'yield regeneratorRuntime.awrap(x)', so that the runtime can test\n // 'hasOwnProperty(value, '__await__)' to determine if the yielded value is\n // meant to be awaited.\n runtime.awrap = function(arg) {\n return { \n    __await: arg;\n  }\n};\n function AsynchronousGeneratorFunction(\n  \n  function invoke(method, arg, resolve, reject) {\n    var record = tryCatch(generator[method], generator, arg);\n    if (record.type === \"throw\") {\n      reject(record.arg);\n    } else {\n      var result = record.arg;\n      var value = result.value;\n      if (value &&
        typeof value === \"object\" &&
        hasOwn.call(value, \"__await\")\n      ) {\n        return Promise.resolve(value).then(function(value) {\n          \n          return Promise.reject(value);\n        }\n      }\n      \n      try {\n        \n        } \n      }\n    }\n    \n    // When a yielded Promise is resolved, its final value becomes\n    // the .value of the Promise.<value.done> result for the\n    // current iteration. If the Promise is rejected, however, the\n    // result for this iteration will be rejected with the same\n    // reason. Note that rejections of yielded Promises are not\n    // thrown back into the generator function, as is the case\n    // when an awaited Promise is rejected. This difference in\n    // behavior between yield and await is important,\n    \n    // throw back into the generator\n    // into the generator, abandon iteration, whatever). With\n    // await, by
Open Source Used In MSX SD-WAN Service Pack 4.0.0
```javascript
var loader = require('./js-yaml/loader');
var dumper = require('./js-yaml/dumper');

function deprecated(name) {
  return function () {
    throw new Error('Function ' + name + ' is deprecated and cannot be used.');
  };
}

module.exports.Type = require('./js-yaml/type');
module.exports.Schema = require('./js-yaml/schema');
module.exports.FAILSAFE_SCHEMA = require('./js-yaml/schema/failsafe');
module.exports.JSON_SCHEMA = require('./js-yaml/schema/json');
module.exports.CORE_SCHEMA = require('./js-yaml/schema/core');
module.exports.DEFAULT_SAFE_SCHEMA = require('./js-yaml/schema/default_safe');
module.exports.DEFAULT_FULL_SCHEMA = require('./js-yaml/schema/default_full');
module.exports.load = loader.load;
module.exports.loadAll = loader.loadAll;
module.exports.safeLoad = loader.safeLoad;
module.exports.safeLoadAll = loader.safeLoadAll;
module.exports.dump = dumper.dump;
module.exports.safeDump = dumper.safeDump;
module.exports.YAMLException = require('./js-yaml/exception');

// Deprecated schema names from JS-YAML 2.0
module.exports.MINIMAL_SCHEMA = require('./js-yaml/schema/failsafe');
module.exports.DEFAULT_SCHEMA = require('./js-yaml/schema/default_full');

// Deprecated functions from JS-YAML 1.x.x
module.exports.scan = deprecated('scan');
module.exports.parse = deprecated('parse');
module.exports.compose = deprecated('compose');
module.exports.addConstructor = deprecated('addConstructor');

///////////////////
// WEBPACK FOOTER
// module id = 743
// module chunks = 0
```
null // Encode UTF-16 surrogate pairs

return String.fromCharCode(c);  
  }
  // Encode UTF-16 surrogate pairs
  return String.fromCharCode((c - 0x010000) >>> 10) + 0xD800, (c - 0x010000) & 0x03FF) + 0xDC00);  
}

var simpleEscapeCheck = new Array(256);  

for (var i = 0; i < 256; i++) {

  simpleEscapeCheck[i] = simpleEscapeSequence(i) ? 1 : 0;
}

var simpleEscapeMap = new Array(256);

for (var i = 0; i < 256; i++) {

  simpleEscapeMap[i] = simpleEscapeSequence(i);
}

function State(input, options) {

  this.input = input;

  // filename property is used to create a new
  // instance of State with no options
  this.filename  = options['filename']  || null;

  // schema property is used to create a new
  // instance of State with no options
  this.schema    = options['schema']    || DEFAULT_FULL_SCHEMA;

  // onWarning is used to call this.onWarning
  // with the error message
  this.onWarning = options['onWarning'] || null;

  // legacy property is used to create a new
  // instance of State with no options
  this.legacy    = options['legacy']    || false;

  // json property is used to create a new
  // instance of State with no options
  this.json      = options['json']      || false;

  // listener property is used to create a new
  // instance of State with no options
  this.listener  = options['listener']  || null;

  // implicitTypes property is used to create a new
  // instance of State with no options
  this.implicitTypes = this.schemacompiledImplicit;


  // typeMap property is used to create a new
  // instance of State with no options
  this.typeMap = this.schemacompiledTypeMap;

  this.length     = input.length;

  this.position   = 0;

  this.line       = 0;

  this.lineStart  = 0;

  this.lineIndent = 0;

  this.documents = [];

  this.version;

  this.checkLineBreaks;

  this.tagMap;

  this.tag;

  this.anchor;

  this.result;
state.line = startLine || state.line;
  state.position = startPos || state.position;
  throwError(state, 'duplicated mapping key');
} ||
  _result[keyNode] = valueNode;
  delete overridableKeys[keyNode];
}

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 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 === 3;\n  ||
    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 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 = state.input.charCodeAt(state.position);

  if (is_WHITE_SPACE(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)) {
      return false;
    }

    if (is_WS_OR_EOL(following) ||
      state.input.charCodeAt(_position + 1)) {
    return false;
  }

  }

  state.kind = 'scalar';
  state.result = '';

  captureStart = captureEnd = state.position;
  hasPendingContent = false;

  while (ch !== 0) {
    if (ch === 0x20/* Space */) {
      state.lineIndent++;
      ch = state.input.charCodeAt(state.position);
    }

    if (is_EOL(ch)) {
      _line = state.line;
      _lineStart = state.lineStart;
      _lineIndent = state.lineIndent;
      state.lineIndent = 0;

      while (ch !== 0) {
        if (ch === 0x20/* Space */) {
          state.lineIndent++;
          ch = state.input.charCodeAt(state.position);
        }
      }
    } else {
      break;
    }
  }

  captureSegment(state, captureStart, captureEnd, false);

  if (hasPendingContent) {
    captureStart = captureEnd = state.position;
    hasPendingContent = false;

    while (ch !== 0) {
      if (ch === 0x20/* Space */) {
        state.lineIndent += 1;
        state.lineStart = state.lineStart;
      }
    }
  }

  writeFoldedLines(state, count);
0x21/* */) { 
 if (isNamed) { 
 tagHandle = '!' + 
 } else if (tagHandle === '!!') { 
 isNamed = true; 
 tagHandle = state.input.slice(_position - 1, state.position + 1); 
 } else if (isWS) { 
 throwError(state, 'unidentified alias "' + alias + '"'); 
 state.result = state.anchorMap[alias]; 
 skipSeparationSpace(state, true, -1); 
 return true; 
 } else if (state.tag == 'tag:yaml.org,2002:*') { 
 throwError(state, 'tag suffix cannot contain flow indicator characters'); 
 } else if (isOwnProperty.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 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; 
 allowBlockStyles = allowBlockScalars = allowBlockCollections = allowBlockCollections = 
 CONTEXT_BLOCK_OUT === nodeContext || CONTEXT_BLOCK_IN === nodeContext; 
 if (allowToSeek) { 
 if (skipSeparationSpace(state, true, -1)) { 
 atNewLine = true; 
 allowBlockCollections = allowBlockStyles; 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = 0; 
 } else { 
 indentStatus = 1; 
 } 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = -1; 
 } 
 } else if (indentStatus === 1) { 
 while (readTagProperty(state)) { 
 readAnchorProperty(state); 
 } 
 atNewLine = true; 
 allowBlockCollections = allowBlockStyles; 
 } else if (state.lineIndent > parentIndent) { 
 indentStatus = 1; 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = 0; 
 } 
 if (indentStatus == 0) { 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = -1; 
 } 
 } 
 return true; 
 }

function readAnchorProperty(state) { 
 var _position, 
 ch; 
 ch = state.input.charCodeAt(state.position); 
 if (ch !== 0x26) return false; 
 if (state.anchor !== null) { 
 throwError(state, 'duplication of an anchor property'); 
 } 
 ch = state.input.charCodeAt(++state.position); 
 _position = state.position; 
 while (ch !== 0 && !isWS) { 
 ch = state.input.charCodeAt(++state.position); 
 } 
 if (state.position === _position) { 
 throwError(state, 'name of an anchor node must contain at least one character'); 
 } 
 state.anchor = state.input.slice(_position, state.position); 
 if (!state.anchorMap.hasOwnProperty(state.anchor)) { 
 throwError(state, 'unidentified anchor "' + state.anchor + '"'); 
 } 
 state.result = state.anchorMap[state.anchor]; 
 skipSeparationSpace(state, true, -1); 
 return true; 
 }

function readAlias(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 && !isWS) { 
 ch = state.input.charCodeAt(ch); 
 } 
 if (state.position === _position) { 
 throwError(state, 'name of an alias node must contain at least one character'); 
 } 
 state.result = state.anchorMap[alias]; 
 skipSeparationSpace(state, true, -1); 
 return true; 
 }

function readTagProperty(state) { 
 var _position = state.position; 
 ch = state.input.charCodeAt(state.position); 
 while (ch !== 0 && !isWS) { 
 ch = state.input.charCodeAt(++state.position); 
 } 
 if (ch === 0x21) { 
 throwError(state, 'named tag handle cannot contain such characters'); 
 } else if (isOwnProperty.call(state.tagMap, tagHandle)) { 
 state.tag = state.tagMap[tagHandle] + tagName; 
 } else if (tagHandle === '!!') { 
 state.tag = 'tag:yaml.org,2002:' + tagName; 
 } else if (tagHandle === '!') { 
 throwError(state, 'tag suffix cannot contain exclamation marks'); 
 } else if (isWS) { 
 throwError(state, 'tag suffix cannot contain flow indicator characters'); 
 } else { 
 if (ch === 0x21) { 
 throwError(state, 'undeclared tag handle "' + tagHandle + '"'); 
 } 
 } 
 return true; 
 }

function readExtensionProperty(state) { 
 var _position = state.position; 
 ch = state.input.charCodeAt(state.position); 
 while (ch !== 0 && !isWS) { 
 ch = state.input.charCodeAt(ch); 
 } 
 if (state.position === _position) { 
 throwError(state, 'name of an extension node must contain at least one character'); 
 } 
 state.result = state.anchorMap[state.anchor]; 
 skipSeparationSpace(state, true, -1); 
 return true; 
 }

function openExtensionNode(state) { 
 if (state.listener !== null) { 
 state.listener('open', state); 
 } 
 state.tag = null; 
 state.anchor = null; 
 state.kind = null; 
 state.result = null; 
 allowBlockStyles = allowBlockScalars = allowBlockCollections = 
 CONTEXT_BLOCK_OUT === nodeContext || CONTEXT_BLOCK_IN === nodeContext; 
 if (allowToSeek) { 
 if (skipSeparationSpace(state, true, -1)) { 
 atNewLine = true; 
 } 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = -1; 
 } 
 } else if (indentStatus == 0) { 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = -1; 
 } 
 } else if (indentStatus === 1) { 
 while (readTagProperty(state)) { 
 readAnchorProperty(state); 
 } 
 atNewLine = true; 
 allowBlockCollections = allowBlockStyles; 
 } else if (state.lineIndent > parentIndent) { 
 indentStatus = 1; 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = 0; 
 } 
 if (indentStatus == 0) { 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = -1; 
 } 
 } 
 return true; 
 }

function openFlowNode(state) { 
 if (state.listener !== null) { 
 state.listener('open', state); 
 } 
 state.tag = null; 
 state.anchor = null; 
 state.kind = null; 
 state.result = null; 
 allowBlockStyles = allowBlockScalars = allowBlockCollections = 
 CONTEXT_BLOCK_OUT === nodeContext || CONTEXT_BLOCK_IN === nodeContext; 
 if (allowToSeek) { 
 if (skipSeparationSpace(state, true, -1)) { 
 atNewLine = true; 
 } 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = -1; 
 } 
 } else if (indentStatus == 0) { 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = -1; 
 } 
 } else if (indentStatus === 1) { 
 while (readTagProperty(state)) { 
 readAnchorProperty(state); 
 } 
 atNewLine = true; 
 allowBlockCollections = allowBlockStyles; 
 } else if (state.lineIndent > parentIndent) { 
 indentStatus = 1; 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = 0; 
 } 
 if (indentStatus == 0) { 
 } else if (state.lineIndent < parentIndent) { 
 indentStatus = -1; 
 } 
 } 
 return true; 
 }

function readBlockNode(state) { 
 var _position, 
 ch; 
 ch = state.input.charCodeAt(state.position); 
 while (ch !== 0 && !isWS) { 
 ch = state.input.charCodeAt(ch); 
 } 
 if (state.position === _position) { 
 throwError(state, 'name of a block node must contain at least one character'); 
 } 
 state.result = state.anchorMap[state.anchor]; 
 skipSeparationSpace(state, true, -1); 
 return true; 
 }
skipSeparationSpace(state, true, -1);\n
if (state.checkLineBreaks) {\n
  if (state.position < state.lineStart) {\n
    state.documents.push(state.result);\n
    if (state.position === state.length - 1) {\n
      throwError(state, 'end of the stream or a document separator is expected');\n
    } else {\n
      return\n    }\n  }\n}

state.documents.push(state.result);\n
if (state.position < state.length - 1) {\n
  if (state.checkLineBreaks &&

      PATTERN_NON_ASCII_LINE_BREAKS.test(state.input.slice(documentStart, state.position))) {\n
    throwWarning(state, 'non-ASCII line breaks are interpreted as content');\n
  }\n
state.documents.push(state.result);\n
  if (state.position === state.lineStart &&

      testDocumentSeparator(state)) {\n
    if (state.input.charCodeAt(state.position) === 0x2E/* . */) {
      state.position += 3;

      skipSeparationSpace(state, true, -1);
    }\n
    return\n  }\n
  if (state.position < (state.length - 1)) {\n
    throwError(state, 'end of the stream or a document separator is expected');\n
  } else {

    return\n  }\n}


function loadDocuments(input, options) {\n
  input = String(input);\n
  options = options || {};

  if (input.length !== 0) {\n
    // Add tailing `.` if not exists\n    if (input.charCodeAt(input.length - 1) !== 0x0A/* LF */ &&

      input.charCodeAt(input.length - 1) !== 0x0D/* CR */) {\n
      input += '\n';\n
      // Strip BOM\n      if (input.charCodeAt(0) === 0xFEFF) {\n        input = input.slice(1);\n      }\n
      var state = new State(input, options);\n
      // Use 0 as string terminator. That significantly simplifies bounds check.\n      state.input += '\0';\n
      while (state.input.charCodeAt(state.position) === 0x20/* Space */) {
        state.lineIndent += 1;
        state.position += 1;
      }\n
      while (state.position < (state.length - 1)) {\n
        readDocument(state);\n      }\n
      return state.documents;\n    }\n  }\n
  return\n}


function loadAll(input, iterator, options) {\n
  var documents = loadDocuments(input, options), index, length;

  if (typeof iterator !== 'function') {\n
    return documents;
  }\n
  for (index = 0, length = documents.length; index < length; index += 1) {
    iterator(documents[index]);\n  }
}


function load(input, options) {\n
  var documents = loadDocuments(input, options);

  if (documents.length === 0) {\n
    /*eslint-disable no-undefined*/\n
    return undefined;
  } else if (documents.length === 1) {\n
    return documents[0];\n  }\n
  throw new YAMLException('expected a single document in the stream, but found more');\n}


function safeLoadAll(input, output, options) {\n
  if (typeof output === 'function') {\n
    loadAll(input, output, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));\n
  } else {\n
    return loadAll(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));\n  }
}


function safeLoad(input, options) {\n
  return load(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));\n}


module.exports.loadAll     = loadAll;
module.exports.load        = load;
module.exports.safeLoadAll = safeLoadAll;
module.exports.safeLoad    = safeLoad;
```
regexp = regexp.slice(1, regexp.length - modifiers.length - 1);

if (object.global) result += 'g';
if (object.multiline) result += 'm';
if (object.ignoreCase) result += 'i';

const representJavascriptRegExp = (object /*, style*/) => {
  var result = '/' + object.source + '/';

  if (object.global) result += 'g';
  if (object.multiline) result += 'm';
  if (object.ignoreCase) result += 'i';

  return result;
};

const 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
});
```
var DEPRECATED_BOOLEAN_SYNTAX = ['y', 'Y', 'yes', 'Yes', 'YES', 'on', 'On', 'ON', 'n', '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 = 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 '\\' + handle + 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;

  this.indentString = indentString;

  this.testImplicitResolving = testImplicitResolving;

  this.isWhitespace = isWhitespace;
  this.isPrintable = isPrintable;
  this.isPlainSafe = isPlainSafe;
  this.isPlainSafeFirst = isPlainSafeFirst;

  this.generateNextLine = generateNextLine;

  this.testImplicitResolving = testImplicitResolving;
}

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);
}
"\n" | "\t" | "\n\" | "\n\"n && c !== CHAR_MINUS \n&& c !== CHAR_QUESTION \n&& c !== CHAR_COLON || c !== CHAR_COMMA || c !== CHAR_LEFT_SQUARE_BRACKET \n&& c !== CHAR_RIGHT_CURLY_BRACKET \n// | "\n" | "{" || c !== CHAR_LEFT_CURLY_BRACKET \n&& c !== CHAR_SHARP \n&& c !== CHAR_AMPERSAND \n&& c !== CHAR_ASTERISK || c !== CHAR_EXCLAMATION \n&& c !== CHAR_VERTICAL_LINE \n&& c !== CHAR_GREATER_THAN \n&& c !== CHAR_PERCENT \n&& c !== CHAR_COMMERCIAL_AT \n&& c !== CHAR_GRAVE_ACCENT;

// Determines whether block indentation indicator is required.
function needIndentIndicator(string) {
  var leadingSpaceRe = /^\n* /;
  return leadingSpaceRe.test(string);
}

var STYLE_PLAIN = 1, 
    STYLE_SINGLE = 2, 
    STYLE_LITERAL = 3, 
    STYLE_FOLDED = 4, 
    STYLE_DOUBLE = 5;

// Determines which scalar styles are possible and returns the preferred style.
// Pre-conditions: str.length > 0. // 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 can be folded (and lineWidth != -1).\n
// chooseScalarStyle used in MSX SD-WAN Service Pack 4.0.0

// 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 \n\n\"\"\n\n• Ending newline => removed then restored \n\n\n// Importantlly, this keeps the \n\n\"\" chomp indicator from gaining an extra line.\n
// function writeScalar(state, string, level, iskey) {\n  // Although every style can represent \n
// whithout 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
// 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
// Edge case: block indentation indicator can only have one digit.\n
// if (indentPerLevel > 9 && needIndentIndicator(string)) {\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
// Note: line breaking/folding is implemented for only the folded

// style.\n
// WE. 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 \n\n\"\"\n\n• Ending newline => removed then restored \n\n\n// Importantlly, this keeps the \n\n\"\" chomp indicator from gaining an extra line.\n
// function writeScalar(state, string, level, iskey) {\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
// 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
// Edge case: block indentation indicator can only have one digit.\n
// if (indentPerLevel > 9 && needIndentIndicator(string)) {\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
// Note: line breaking/folding is implemented for only the folded

// style.\n
// WE. 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 \n\n\"\"\n\n• Ending newline => removed then restored \n\n\n// Importantlly, this keeps the \n\n\"\" chomp indicator from gaining an extra line.\n
// function writeScalar(state, string, level, iskey) {\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
// 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
// Edge case: block indentation indicator can only have one digit.\n
// if (indentPerLevel > 9 && needIndentIndicator(string)) {\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
// Note: line breaking/folding is implemented for only the folded

// style.\n
// WE. 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 \n\n\"\"\n\n• Ending newline => removed then restored \n\n\n// Importantlly, this keeps the \n\n\"\" chomp indicator from gaining an extra line.\n
// function writeScalar(state, string, level, iskey) {\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
// 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
// Edge case: block indentation indicator can only have one digit.\n
// if (indentPerLevel > 9 && needIndentIndicator(string)) {\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
// Note: line breaking/folding is implemented for only the folded
state.lineWidth === -1
    ? -1 : Math.max(Math.min(state.lineWidth, 40), state.lineWidth - indent);}

Without knowing if keys are implicit/explicit, assume implicit for safety.
var singleLineOnly = isKey
    // No block styles in flow mode.
  || (state.flowLevel > 1 && & level >= state.flowLevel);}

function

state.lineWidth

if (char >= 0xD800 && char <= 0xDBFF /* high surrogate */) {
  return escapeString((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);

  // Advance

if (char >= 0xDC00 && nextChar <= 0xDFFF /* low surrogate */) {
  nextChar = string.charCodeAt(i + 1);
  if (nextChar
}

    }
    escapeSeq = escaped.

    result += encodeHex((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);

    // Advance

    }
    escapeSeq = escaped.

    result += encodeHex((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);

    // Advance

    }
    escapeSeq = escaped.

    result += encodeHex((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);

    // Advance

    }
    escapeSeq = escaped.

    result += encodeHex((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);

    // Advance

    }
    escapeSeq = escaped.

    result += encodeHex((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);

    // Advance

    }
    escapeSeq = escaped.

    result += encodeHex((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);

    // Advance

    }
    escapeSeq = escaped.

    result += encodeHex((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);

    // Advance

    }
    escapeSeq = escaped.

    result += encodeHex((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);

    // Advance

    }
    escapeSeq = escaped.
ESCAPE SEQUENCES

result += encodeHex(char);\n\n
decode(part1), value = decode(part2): moduleExports /// Prevent overriding of existing properties. This ensures that build-in methods like 'toString' or '_proto_' are not overridden by malicious strings. /// if (key in result) continue; result[key] = value; } on return result; moduleExports /** * Transform a query string to an object. * @param {Object} obj Object that should be transformed. * @param {String} prefix Optional prefix. * @returns {Object} Namespace function querystringify(obj, prefix) { if (prefix === prefix || "\n var pairs = []; \n return pairs.length ? prefix + pairs.join('&') : ''; \n for (var key in obj) { \n if (has.call(obj, key)) { \n pairs.push(encodeURIComponent(key) + '=' + encodeURIComponent(obj[key])); \n } } on return pairs.length ? prefix + pairs.join(&) : ''; \n WEBPACK FOOTER
 // ./node_modules/querystringify/index.js
 // module id = 764
 // module chunks = 0

 var isObject = require('./isObject'), now = require('./now'), toNumber = require('./toNumber');

 /** Error message constants. */
 var FUNC_ERROR_TEXT = 'Expected a function';

 /* Built-in method references for those with the same name as other 'lodash' methods. */
 var nativeMax = Math.max, nativeMin = Math.min, nativeExports = moduleExports.stringify = querystringify;
 moduleExports.parse = querystring;

 // Expose
 moduleExports.exports = { 'stringify': querystringify, 'parse': querystring };
timeWaiting;

    if (shouldInvoke(time)) {
      return trailingEdge(time);
    }
  }

  function shouldInvoke(time) {
    var timeSinceLastCall = time - lastCallTime;
    var timeSinceLastInvoke = time - lastInvokeTime;

    // Either this is the first call, activity has stopped and we're at the first 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 (timeSinceLastCall !== undefined || (timeSinceLastCall >= wait) ||
      (timeSinceLastCall < 0) || (maxing && timeSinceLastInvoke >= maxWait));
  }

  function timerExpired() {
    var time = now();
    if (shouldInvoke(time)) {
      return trailingEdge(time);
    }
    // Restart the timer.
    timerId = setTimeout(timerExpired, remainingWait(time));
  }

  function trailingEdge(time) {
    timerId = undefined;

    // Only invoke if we have 'lastArgs' which means 'func' has been debounced at least once.
    if (trailing && lastArgs) {
      return invokeFunc(time);
    }
    lastArgs = lastThis = undefined;
    return result;
  }

  function cancel() {
    if (timerId !== undefined) {
      clearTimeout(timerId);
    }
    lastInvokeTime = 0;
    lastArgs = lastArg = lastCallTime = lastThis = undefined;
    return;
  }

  function flush() {
    return timerId === undefined ? result : trailingEdge(now());
  }

  function debounced() {
    var time = now(),
    isInvoking = shouldInvoke(time);

    lastArgs = arguments;
    lastThis = this;
    lastCallTime = time;

    if (isInvoking) {
      if (timerId === undefined) {
        return leadingEdge(lastCallTime);
      }
      if (maxing) {
        // Handle invocations in a tight loop.
        timerId = setTimeout(timerExpired, wait);
        return invokeFunc(lastCallTime);
      }
    }
    if (timerId === undefined) {
      timerId = setTimeout(timerExpired, wait);
    }
    return result;
  }
  debounced.cancel = cancel;
  debounced.flush = flush;
  return debounced;
}

module.exports = debounce;


//////////////////
// WEBPACK FOOTER
// module id = 765
// module chunks = 0

var root = require('./_root');

/**
 * Gets the timestamp of the number of milliseconds that have elapsed since the Unix epoch (1 January 1970 00:00:00 UTC).
 * @static
 * @memberOf _
 * @since 2.4.0
 * @category Date
 * @returns {number} Returns the timestamp.
 * @example
 *
 *_.now();
 * //=> 141418267185.7229
 */
function now() {
  return root.Date.now();
}

module.exports = now;


//////////////////
// WEBPACK FOOTER
// module id = 766
// module chunks = 0

module.exports = { "default": require("core-js/library/fn/object/get-prototype-of"), __esModule: true };


//////////////////
// WEBPACK FOOTER
// module id = 767
// module chunks = 0

module.exports = require("core-js/library/fn/object/set-prototype-of");
console.debug('Download the React DevTools ' + (showFileUrlMessage ? 'and use an HTTP server (instead of a file: URL) ' : '') + 'for a better development experience: ' + 'https://fb.me/react-devtools');

var testFunc = function testFn() {};
process.env.NODE_ENV !== 'production' ? warning(!ieCompatibilityMode, '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;
var expectedFeatures = [
  // shims
  Array.isArray, Array.prototype.every, Array.prototype.forEach, Array.prototype.indexOf, Array.prototype.map,
  Date.now, Function.prototype.bind, Object.keys, String.prototype.trim
];
for (var i = 0; i < expectedFeatures.length; i++) {
  if (!expectedFeatures[i]) {
    process.env.NODE_ENV !== 'production' ? warning(false, 'One or more ES5 shims expected by React are not available: ' + 'https://fb.me/react-warning-polyfills') : void 0;
    break;
  }
}

ReactInjection.EventEmitter.injectReactEventListener(ReactEventListener);
ReactInjection.EventPluginHub.injectEventPluginOrder(DefaultEventPluginOrder);
ReactInjection.EventPluginUtils.injectComponentTree(ReactDOMComponentTree);

* Some important event plugins included by default (without having to require * them).

```javascript
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

ReactInjection.Updates.injectReconcileTransaction(ReactReconcileTransaction);

ReactInjection.Updates.injectBatchingStrategy(ReactDefaultBatchingStrategy);

ReactInjection.Component.injectEnvironment(ReactComponentBrowserEnvironment);
}

module.exports = {
    inject: inject
};
```

```

/**
 * 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 ARIADOMPropertyConfig = {
    Properties: {
        // Global States and Properties
        'aria-current': 0, // state
        'aria-details': 0,
        'aria-disabled': 0, // state
        'aria-hidden': 0, // state
        'aria-invalid': 0, // state
        'aria-keyshortcuts': 0,
        'aria-label': 0,
        'aria-pressed': 0,
        'aria-readonly': 0,
        'aria-required': 0,
        'aria-selected': 0,
        'aria-sort': 0,
        'aria-valuemax': 0,
        'aria-valuemin': 0,
        'aria-valuenow': 0,
        'aria-valuetext': 0,
        // Live Region Attributes
        'aria-atomic': 0,
        'aria-busy': 0,
        'aria-live': 0,
        'aria-relevant': 0,
        // Drag-and-Drop Attributes
        'aria-dropeffect': 0,
        'aria-grabbed': 0,
        // Relationship Attributes
        'aria-activedescendant': 0,
        'aria-colcount': 0,
        'aria-colindex': 0,
        'aria-colspan': 0,
        'aria-controls': 0,
        'aria-describedby': 0,
        'aria-errormessage': 0,
        'aria-flowto': 0,
        'aria-labelledby': 0,
        'aria-owns': 0,
        'aria-posinset': 0,
        'aria-rowcount': 0,
        'aria-rowindex': 0,
        'aria-rowspan': 0,
        'aria-setsize': 0,
    },
    DOMAttributeNames: {},
    DOMPropertyNames: { }
};

module.exports = ARIADOMPropertyConfig;
```
Opera <= 12 includes TextEvent in window, but does not fire text input events. Rely on keypress instead.

```javascript
function isPresto() {
  var opera = window.opera;
  return typeof opera === 'object' && typeof opera.version === 'function' && parseInt(opera.version(), 10) <= 12;
}

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', 'topKeyPress', 'topKeyUp', 'topMouseDown'] },
  compositionStart: { phasedRegistrationNames: { bubbled: 'onCompositionStart', captured: 'onCompositionStartCapture' }, dependencies: ['topBlur', 'topCompositionStart', 'topKeyPress', 'topKeyUp', 'topMouseDown'] },
  compositionUpdate: { phasedRegistrationNames: { bubbled: 'onCompositionUpdate', captured: 'onCompositionUpdateCapture' }, dependencies: ['topBlur', 'topCompositionUpdate', 'topKeyDown', 'topKeyPress', 'topKeyUp', 'topMouseDown'] }
};

// Track whether we've ever handled a keypress on the space key.
hasSpaceKeypress = false;

/**
 * Return whether a native keypress event is assumed to be a command.
 * This is required because Firefox fires `keypress` events for key commands (cut, copy, select-all, etc.)
 * even though no character is inserted.
 */
function isKeypressCommand(nativeEvent) {
  return (nativeEvent.ctrlKey || nativeEvent.altKey || nativeEvent.metaKey) &&
  !(nativeEvent.ctrlKey && nativeEvent.altKey);
}

/**
 * Does our fallback best-guess model think this event signifies that composition has begun?
 * Does our fallback best-guess model think this event signifies that composition has begun?
 */
function isFallbackCompositionStart(topLevelType, nativeEvent) {
  return topLevelType === 'topKeyDown' && nativeEvent.keyCode === START_KEYCODE;
}

/**
 * Does our fallback mode think that this event is the end of composition?
 * Does our fallback mode think that this event is the end of composition?
 */
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 'topMouseDown':
    case 'topBlur':
      // 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 event (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.data;
  }
  return null;
}

// Track the current IME composition fallback object, if any.
var currentComposition = null;

/**
 * SyntheticCompositionEvent.
 */
function extractCompositionEvent(topLevelType, targetInst, nativeEvent, nativeEventTarget) {
  var eventType;
  var fallbackData;

  if (canUseCompositionEvent) {
    eventType = getCompositionEventType(topLevelType);
  } else if (isFallbackCompositionEnd(topLevelType, nativeEvent)) {
    eventType = getCompositionEventType(topLevelType);
  } else if (isFallbackCompositionStart(topLevelType, nativeEvent)) {
    eventType = getCompositionEventType(topLevelType);
  } else if (currentComposition) {
    eventType = getCompositionEventType(topLevelType);
  }

  if (eventType === 'compositionstart' || eventType === 'compositionend') {
    if (eventType === 'compositionstart') {
      // On composite start, set the current composition.
      currentComposition = new SyntheticCompositionEvent(nativeEventTarget, null);
    }
    // Do nothing.
  } else if (eventType === 'keypress') {
    // On keypress, if there is no current composition, create a new one.
    if (currentComposition === null) {
      currentComposition = new SyntheticCompositionEvent(nativeEventTarget, null);
    }
    // Do nothing.
  } else if (eventType === 'compositionupdate') {
    // On composition update, do nothing.
    // Do nothing.
  } else if (eventType === 'compositionupdate') {
    // On composition update, do nothing.
    // Do nothing.
  } else if (eventType === 'compositionupdate') {
    // On composition update, do nothing.
    // Do nothing.
  } else if (eventType === 'compositionupdate') {
    // On composition update, do nothing.
    // Do nothing.
  } else if (eventType === 'compositionupdate') {
    // On composition update, do nothing.
    // Do nothing.
  } else if (eventType === 'compositionupdate') {
    // On composition update, do nothing.
    // Do nothing.
  }

  // Fire the event.
  targetInst.dispatchEvent(nativeEvent);
}
```

---

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eventTypes.compositionEnd) {
  if (currentComposition) {
    fallbackData = currentComposition.getData();
  }
  var event = SyntheticCompositionEvent.getPooled(eventType, targetInst, nativeEvent, nativeEventTarget);
  if (fallbackData) {
    Inject data generated from fallback path into the synthetic event.
  } // This matches the property of native CompositionEventInterface.
  event.data = fallbackData;
} else {
  var customData = getEventDataFromCustomEvent(nativeEvent);
  if (customData !== null) {
    event.data = customData;
  }
}

EventPropagators.accumulateTwoPhaseDispatches(event);

return event;
}

/**
 * @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) {
  switch (topLevelType) {
    case 'topCompositionEnd':
      return getDataFromCustomEvent(nativeEvent);
    case 'topKeyPress':
      /**
       * If native `textInput` events are available, our goal is to make *
       * * use of them. However, there is a special case:
       * the spacebar key.
       * In Webkit, preventing default on a spacebar `textInput` event
       * cancels character insertion, but it also causes the browser
       * to fall back to its default spacebar behavior of scrolling the
       * page.
       * Tracking at:
       * https://code.google.com/p/chromium/issues/detail?id=355103
       * *
       * To avoid this issue, use the keypress event as if no `textInput`
       * event is available, and if which = nativeEvent.which; if (which !== SPACEBAR_CODE) {
       *   return null;
       * } hasSpaceKeypress = true;
       * return SPACEBAR_CHAR;
       * // Record the characters to be added to the
       * DOM;
       * var chars = nativeEvent.data;
       * // If it's a spacebar character, assume that we have already handled
       * // it at the keypress level and bail immediately. Android Chrome
       * // doesn't give us keycodes, so we need to blacklist it.
       * if (chars === SPACEBAR_CHAR && hasSpaceKeypress) {
       *   return null;
       * }
       * return chars;
       * // For other native event types, do nothing.
       * return null;
       * }

    case 'topTextInput':
      // Record the characters to be added to
      // DOM;
      var chars = nativeEvent.data;
      // If a paste event occurs after a keypress, throw out the input
      // chars. Paste events should not lead to BeforeInput events.
      return null;
    case 'topPaste':
      // Firefox may fire keypress events even when no character
      // will be inserted. A few possibilities:
      * 
      * - `which` is the pressed key code, but no character is available.
      *   Ex: 'AltGr + d' in Polish. There is no modified character for
      *   this key combination and no character is inserted into the
      *   document, but FF fires the keypress for char code `100` anyway.
      * - `which` is the pressed key code, but a command combination is
      *   being used. Ex: 'Cmd+C'. No character is inserted, and no
      *   `input` event will occur.
      *   Use this key combination to insert text.
      *   If (nativeEvent.which && isKeypressCommand(nativeEvent)) {
      *     return String.fromCharCode(nativeEvent.keyCode);
      *   } else {
      *     return useFallbackCompositionData ? null : nativeEvent.data;
      *   }
      * }
      * return null;
      * }
      
    default:
      return null;
  }
}

/**
 * Extract a SyntheticInputEvent for `beforeInput`, based on either native
 * `textInput` or fallback behavior.
 *
 * @return {?object} A SyntheticInputEvent.
 */
function extractBeforeInputEvent(topLevelType, targetInst, nativeEvent, nativeEventTarget) {
  var chars = getNativeBeforeInputChars(topLevelType, nativeEvent); 
  else {
    chars = getFallbackBeforeInputChars(topLevelType, nativeEvent);
  }

  // If no characters are being inserted, no
  // BeforeInput event should
  // be fired.
  if (!chars) {
    return null;
  }

  var event = SyntheticInputEvent.getPooled(eventTypes.beforeInput, targetInst, nativeEvent, nativeEventTarget);
  event.data = chars;
}

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// WEBPACK FOOTER
// module: ./node_modules/react-dom/lib/BeforeInputEventPlugin.js
// 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';

var _assign = require('object-assign');

var PooledClass = require('./PooledClass');

var getTextContentAccessor = require('./getTextContentAccessor');

/**
 * This helper class stores information about text content of a target node,
 * allowing comparison of content before and after a given event.
 *
 * Identify the node where selection currently begins, then observe its text content
 * and its current position in the DOM. Since the browser may natively replace the target node during composition,
 * we can use its position to find its replacement.
 *
 * @param {DOMEventTarget} root
 */
function FallbackCompositionState(root) {
  this._root = root;
  this._startText = this.getText();
  this._fallbackText = null;
}

_assign(FallbackCompositionState.prototype, {
  destructor: function () {
    this._root = null;
    this._startText = null;
    this._fallbackText = null;
  },

  /**
   * Get current text of input.
   *
   * @return {string}
   */
  getText: function () {
    if ('value' in this._root) {
      return this._root.value;
    }
    return this._root[getTextContentAccessor()];
  },

  /**
   * Determine the differing substring between the initially stored text content and the current content.
   *
   * @return {string}
   */
  getData: function () {
    if (this._fallbackText) {
      return this._fallbackText;
    }

    var start;
    var startValue = this._startText;
    var startLength = startValue.length;
    var end;
    var endValue = this.getText();
    var endLength = endValue.length;

    for (start = 0; start < startLength; start++) {
      if (startValue[start] !== endValue[start]) {
        break;
      }
    }

    var minEnd = startLength - start;
    for (end = 1; end <= minEnd; end++) {
      if (startValue[startLength - end] !== endValue[endLength - end]) {
        break;
      }
    }

    var sliceTail = end > 1 ? 1 - end : undefined;
    this._fallbackText = endValue.slice(start, sliceTail);
    return this._fallbackText;
  }
});

PooledClass.addPoolingTo(FallbackCompositionState);

module.exports = FallbackCompositionState;
found in the LICENSE file in the root directory of this source tree. *

var SyntheticEvent = require('./SyntheticEvent');

var SyntheticInputEvent = require('./SyntheticInputEvent');

var InputEventInterface = {
  data: null
};

/**
 * @interface Event
 * @see http://www.w3.org/TR/2013/WD-DOM-Level-3-Events-20131105/
 */

var SyntheticEvent = require('./SyntheticEvent');

/**
 * @param {object} dispatchConfig Configuration used to dispatch this event.
 * @param {string} dispatchMarker Marker identifying the event target.
 * @param {object} nativeEvent Native browser event.
 */

function SyntheticInputEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget);
}

SyntheticEvent.augmentClass(SyntheticInputEvent, InputEventInterface);

module.exports = SyntheticInputEvent;

//////////////////
// WEBPACK FOOTER
// module id = 783
// module chunks = 0

'use strict';

var EventPluginHub = require('./EventPluginHub');
var EventPropagators = require('./EventPropagators');
var ExecutionEnvironment = require('fbjs/lib/ExecutionEnvironment');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactUpdates = require('./ReactUpdates');
var SyntheticEvent = require('./SyntheticEvent');

function syntheticDispatchChangeEvent(nativeEvent, target) {
  var event = createAndAccumulateChangeEvent(nativeEvent, target);
  EventPropagators.accumulateTwoPhaseDispatches(event);
  return event;
}

function shouldUseNativeEvent(elem) {
  var nodeName = elem.nodeName && elem.nodeName.toLowerCase();
  return nodeName === 'select' || nodeName === 'input' && elem.type === 'file';
}

var doesChangeEventBubble = false;
if (ExecutionEnvironment.canUseDOM) {
  // See `handleChange` comment below
  doesChangeEventBubble = isEventSupported('change') && (!document.documentMode || document.documentMode > 8);
}

function getInstIfValueChanged(targetInst, nativeEvent) {
  var updated = false;
  var simulated = nativeEvent.simulated === true &&ChangeEventPlugin._allowSimulatedPassThrough;

  if (updated || simulated) {
    return targetInst;
  }
}

function handleEventsForChangeEventIE8(topLevelType, target, targetInst) {
  if (topLevelType === 'topFocus') {
    return targetInst;
  }
}

function runEventInBatch(event) {
  EventPluginHub.enqueueEvents(event);
  EventPluginHub.processEventQueue(false);
}

function startWatchingForChangeEventIE8(target, targetInst) {
  activeElement = target;
  activeElementInst = targetInst;
  activeElement.attachEvent('onchange', manualDispatchChangeEvent);
}

function stopWatchingForChangeEventIE8() {
  if (!activeElement) {
    return;
  }
  activeElement.detachEvent('onchange', manualDispatchChangeEvent);
}

function manualDispatchChangeEvent(nativeEvent) {
  var event = createAndAccumulateChangeEvent(nativeEvent, nativeEventInst);
  EventPluginHub.enqueueEvents(event);
  EventPluginHub.processEventQueue(false);
}

function createAndAccumulateChangeEvent(nativeEvent, targetInst) {
  var event = createAndAccumulateChangeEvent(activeElementInst, nativeEvent, targetInst);
  if (change and propertychange bubbled, we'd just bind to it like all the other events and have it go through ReactBrowserEventEmitter. Since it doesn't, we manually listen for the events and so we have to enqueue and process the abstract event manually. Batching is necessary here in order to ensure that all event handlers run // before the next rerender (including event handlers attached to ancestor elements instead of directly on the input). Without this, controlled components don't work properly in conjunction with event bubbling because the component is rerendered and the value reverted before all the event handlers can run. See https://github.com/facebook/react/issues/708.

  ReactUpdates.batchedUpdates(runEventInBatch, event);
}

function runEventInBatch(event) {
  EventPluginHub.enqueueEvents(event);
  EventPluginHub.processEventQueue(false);
}

function startWatchingForChangeEventIE8(target, targetInst) {
  activeElement = target;
  activeElementInst = targetInst;
  activeElement.attachEvent('onchange', manualDispatchChangeEvent);
}

function stopWatchingForChangeEventIE8() {
  if (!activeElement) {
    return;
  }
  activeElement.detachEvent('onchange', manualDispatchChangeEvent);
}

function getInstIfValueChanged(targetInst, nativeEvent) {
  var updated = false;
  var simulated = nativeEvent.simulated === true &&ChangeEventPlugin._allowSimulatedPassThrough;

  if (updated || simulated) {
    return targetInst;
  }
}

function handleEventsForChangeEventIE8(topLevelType, target, targetInst) {
  if (topLevelType === 'topFocus') {
    return targetInst;
  }
}

function runEventInBatch(event) {
  EventPluginHub.enqueueEvents(event);
  EventPluginHub.processEventQueue(false);
}

function startWatchingForChangeEventIE8(target, targetInst) {
  activeElement = target;
  activeElementInst = targetInst;
  activeElement.attachEvent('onchange', manualDispatchChangeEvent);
}

function stopWatchingForChangeEventIE8() {
  if (!activeElement) {
    return;
  }
  activeElement.detachEvent('onchange', manualDispatchChangeEvent);
}

function getInstIfValueChanged(targetInst, nativeEvent) {
  var updated = false;
  var simulated = nativeEvent.simulated === true &&ChangeEventPlugin._allowSimulatedPassThrough;

  if (updated || simulated) {
    return targetInst;
  }
}

function handleEventsForChangeEventIE8(topLevelType, target, targetInst) {
  if (topLevelType === 'topFocus') {
    return targetInst;
  }
}

function runEventInBatch(event) {
  EventPluginHub.enqueueEvents(event);
  EventPluginHub.processEventQueue(false);
}

function startWatchingForChangeEventIE8(target, targetInst) {
  activeElement = target;
  activeElementInst = targetInst;
  activeElement.attachEvent('onchange', manualDispatchChangeEvent);
}

function stopWatchingForChangeEventIE8() {
  if (!activeElement) {
    return;
  }
  activeElement.detachEvent('onchange', manualDispatchChangeEvent);
}

function getInstIfValueChanged(targetInst, nativeEvent) {
  var updated = false;
  var simulated = nativeEvent.simulated === true &&ChangeEventPlugin._allowSimulatedPassThrough;

  if (updated || simulated) {
    return targetInst;
  }
}

function handleEventsForChangeEventIE8(topLevelType, target, targetInst) {
  if (topLevelType === 'topFocus') {
    return targetInst;
  }
}
Start tracking propertychange events on the passed-in element in * and override the value property so that we can distinguish user events from value changes in JS, *unfunction stopWatchingForValueChange(target, targetInst) { aktivElement = target; aktivElementInst = targetInst; aktivElement.attachEvent(onpropertychange, handlePropertyChange); in/un/*unfunction stopWatchingForValueChange() { in if (!aktivElement) { in return; } in aktivElement.detachEvent(onpropertychange, handlePropertyChange); aktivElement = null; aktivElementInst = null; in/un/*unfunction (For IE <=9) Removes the event listeners from the currently-tracking element, if any exists. *unfunction stopWatchingForValueChange() { in if (!aktivElement) { in return; } in aktivElement.detachEvent(onpropertychange, handlePropertyChange); aktivElement = null; aktivElementInst = null; in/un/*unfunction (For IE <=9) Handles a propertychange event, sending a ‘change’ event if the value of the active element has changed. *unfunction handlePropertyChange(nativeEvent) { in if (nativeEvent.propertyName != ‘value’) { in return; } in if (getInstIfValueChanged(aktivElementInst, nativeEvent)) { in manualDispatchChangeEvent(nativeEvent); in/unfunction handleEventsForInputEventPolyfill(topLevelType, target, targetInst) { in if (topLevelType == ‘topFocus’) { in // In IE8, we can capture almost all .value changes by adding azn // propertychange handler and looking for events with propertyName // equal to ‘value’. // 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 in // our activeElementValue variable, allowing us to ignore those changes in // in // stopWatching() should be a noop here but we call it just in case // we’re missed a blur event somehow. // in stopWatchingForValueChange(); in startWatchingForValueChange(target, targetInst); } else if (topLevelType == ‘topBlur’) { in stopWatchingForValueChange(); in/unfunction getTargetInstForInputOrChangeEvent(topLevelType, targetInst, nativeEvent) { in if (topLevelType == ‘topSelectionChange’) { // topLevelType == ‘topKeyUp’ || topLevelType == ‘topKeyDown’) { in // On the selectionchange event, the target is just document which isn’t // helpful for us so just check activeElement instead. in // in // 99% of the time, keydown and keyup aren’t necessary. IE8 fails to fire in // propertychange on the first input event after setting ‘value’ from azn // script and fires only keydown, keypress, keyup. Capturing keyup usually in // gets it and catching keydown lets us fire an event for the first in // keystroke if user does a key repeat (it’ll be a little delayed: rightin // before the second keystroke). Other input methods (e.g., paste) seem to in // fire selectionchange normally. in return getInstIfValueChanged(aktivElementInst, nativeEvent); in } in/*unfunction * SECTION: handle ‘click’ event in ununfunction shouldUseClickEvent(elem) { in // Use the ‘click’ event to detect changes to checkbox and radio inputs. in // This approach works across all browsers, whereas ‘change’ does not fire in // until ‘blur’ in IE8. var nodeName = elem.nodeName; in return nodeName && nodeName.toLowerCase() === ‘input’ && (elem.type === ‘checkbox’ || elem.type === ‘radio’); in/*unfunction getTargetInstForClickEvent(topLevelType, targetInst, nativeEvent) { in if (topLevelType == ‘topClick’) { in return getInstIfValueChanged(targetInst, nativeEvent); in } in/*unfunction getTargetInstForInputChangeEvent(topLevelType, targetInst, nativeEvent) { in if (topLevelType == ‘topInput’) { in return getInstIfValueChanged(topLevelType, targetInst, nativeEvent); in } in/*unfunction handleControlledInputChangeBlur(inst, node) { in // TODO: In IE, inst is occasionally null. Why? in if (inst == null) { in return; } in // Fiber and ReactDOM keep wrapper state in separate places in var state = inst._wrapperState; in node._wrapperState; in if (!state || !state.controlled || node.type !== ‘number’) { in return; } in // If controlled, assign the value attribute to the current value on blur in var value = node.getAttribute(‘value’) !== value) { in node.setAttribute(‘value’, value); in } in/*unfunction * This plugin creates an ‘onChange’ event that normalizes change events across form elements. This event fires at a time when it’s possible toun * change the

Open Source Used In MSX SD-WAN Service Pack 4.0.0 20551
element’s value without seeing a flicker.

* Supported elements are:

- textare
- * input (see `isTextInputElement`)
- textarea
- * select

**Supported elements are:**

- input (see `isTextInputElement`)
- textarea
- select

```javascript
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;
      }
    } 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);
    }

    // When blurring, set the value attribute for number inputs
    if (topLevelType === 'topBlur') {
      handleControlledInputBlur(targetInst, targetNode);
    }
  }
};

module.exports = ChangeEventPlugin;
```

---

```javascript
module.exports = ReactRef;
```

---

```javascript
module.exports = ReactOwner;
```

---

```javascript
module.exports = WebPACK_FOOTER
```

---

```javascript
module.exports = WebPACK_FOOTER
```

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```

---

```javascript
module.exports = WebPACK_FOOTER
```
ReactOwners are capable of storing references to owned components. All components are capable of referencing owned components. The named reference is known as a ref. Refs are available when mounted and updated during reconciliation.

```javascript
 /**
 * ReactOwners are capable of storing references to owned components.
 *
 * 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. Refs are available when mounted and updated during reconciliation.
 * var MyComponent = React.createClass({
 *   render: function() {
 *     return (<div onClick={this.handleClick}>...
 *   }
 *   handleComponent: function() {
 *     // code
 *   }
 *   this.refs.handleComponentClick(this);<div>
 *     // code
 *   }
 *   componentDidMount: function() {
 *     // code
 *   }
 *   handleOnClick: function(e) {
 *     // code
 *   }
 *   props: {onClick: function(e) {
 *     // code
 *   }}
 *   component: ReactOwner
 *   addComponentAsRefTo: function(component, ref, owner) {
 *     // code
 *   }
 *   removeComponentAsRefFrom: function(component, ref, owner) {
 *     // code
 *   }
 *   isValidOwner(reactOwner) {
 *     // code
 *   }
 *   _prodInvariant: function(name, a, b, c, d, e) {
 *     // code
 *   }
 *   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
 *   'render' method, or you have multiple copies of React loaded (details: https://fb.me/react-refs-must-have-owner).')
 *   : _prodInvariant('119')
 *   attachRef: function() {
 *     // code
 *   }
 *   detachRef: function() {
 *     // code
 *   }
 *   getPublicInstance: function() {
 *     // code
 *   }
 *   getOwnerInstance: function() {
 *     // code
 *   }
 *   attachRefs: function() {
 *     // code
 *   }
 *   detachRefs: function() {
 *     // code
 *   }
 *   initialize: function() {
 *     // code
 *   }
 *   update: function() {
 *     // code
 *   }
 *   getInitialState: function() {
 *     // code
 *   }
 *   componentDidMount: function() {
 *     // code
 *   }
 *   getDerivedStateFromProps: function() {
 *     // code
 *   }
 *   shouldComponentUpdate: function() {
 *     // code
 *   }
 *   render: function() {
 *     // code
 *   }
 *   static getDerivedStateFromProps: function() {
 *     // code
 *   }
 *   getTag: function() {
 *     // code
 *   }
 *   getInitialState: function() {
 *     // code
 *   }
 *   simulateTouchEvent: function(e) {
 *     // code
 *   }
 *   makeText: function() {
 *     // code
 *   }
 *   makeTextFromProps: function() {
 *     // code
 *   }
 *   setRef: function() {
 *     // code
 *   }
 *   createRef: function() {
 *     // code
 *   }
 *   attachRef: function() {
 *     // code
 *   }
 *   detachRef: function() {
 *     // code
 *   }
 *   getOwnerInstance: function() {
 *     // code
 *   }
 *   getPublicInstance: function() {
 *     // code
 *   }
 *   setRef: function() {
 *     // code
 *   }
 *   createRef: function() {
 *     // code
 *   }
 *   attachRef: function() {
 *     // code
 *   }
 *   detachRef: function() {
 *     // code
 *   }
 *   getOwnerInstance: function() {
 *     // code
 *   }
 *   getPublicInstance: function() {
 *     // code
 *   }
 *   setRef: function() {
 *     // code
 *   }
 *   createRef: function() {
 *     // code
 *   }
 *   attachRef: function() {
 *     // code
 *   }
 *   detachRef: function() {
 *     // code
 *   }
 *   getOwnerInstance: function() {
 *     // code
 *   }
 *   getPublicInstance: function() {
 *     // code
 *   }
 *   setRef: function() {
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 *   createRef: function() {
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 *   attachRef: function() {
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 *   detachRef: function() {
 *     // code
 *   }
 *   getOwnerInstance: function() {
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 *   getPublicInstance: function() {
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 *   setRef: function() {
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 *   createRef: function() {
 *     // code
 *   }
 *   attachRef: function() {
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 *   }
 *   detachRef: function() {
 *     // code
 *   }
 *   getOwnerInstance: function() {
 *     // code
 *   }
 *   getPublicInstance: function() {
 *     // code
 *   }
 *   setRef: function() {
 *     // code
 *   }
 *   createRef: function() {
 *     // code
 *   }
 *   attachRef: function() {
 *     // code
 *   }
 *   detachRef: function() {
 *     // code
 *   }
 *   getOwnerInstance: function() {
 *     // code
 *   }
 *   getPublicInstance: function() {
 *     // code
 *   }
 *   setRef: function() {
 *     // code
 *   }
 *   createRef: function() {
 *     // code
 *   }
 */
```
`mouseout` event. In this case, we use:

```javascript
* the `mouseover` top-level event.

extractEvents: function
(topLevelType, targetInst, nativeEvent, nativeEventTarget) {

  if (topLevelType === 'topMouseOver' \&\&
      (nativeEvent.relatedTarget || nativeEvent.fromElement)) {
    return null; \}
  } if (topLevelType !== 'topMouseOut' \&\&
      topLevelType !== 'topMouseOver') {
    \// Must not be a mouse in or mouse out - ignoring.

  } \} \n
  var win; \n  if (nativeEventTarget.window === nativeEventTarget) { \n    \// `nativeEventTarget` is probably a window object. \n    win = nativeEventTarget; \} else { \n    \// TODO: Figure out why `ownerDocument` is sometimes undefined in IE8. \n    var doc = nativeEventTarget.ownerDocument; \n
    if (doc) { \n      win = doc.defaultView || doc.parentWindow; \} else { \n      win = window; \}

  } \n
  var from; \n  var to;

  if (topLevelType === 'topMouseOut') {
    from = targetInst;
    var related = nativeEvent.relatedTarget || nativeEvent.toElement;
    to = related ? ReactDOMComponentTree.getClosestInstanceFromNode(related) : null;
  } else { \n    // Moving to a node from outside the window. \n    from = null;
    to = targetInst;
  }

  if (from === to) { \n    \// Nothing pertains to our managed components. \n    return null; \n  } \n
  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;

```

---

`DOMProperty` injection:

```javascript
require('./DOMProperty');
```

```javascript
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;

```

---

```javascript
var HTMLDOMPropertyConfig = {

  isCustomAttribute: RegExp.prototype.test.bind(new RegExp('^data-[' +
    DOMProperty.ATTRIBUTE_NAME_CHAR + ']*$')),
  Properties: {
    /**
     * Standard Properties
     */

    accept: 0,
    acceptCharset: 0,
    accessKey: 0,
    action: 0,
    allowFullScreen: HAS_BOOLEAN_VALUE,
    allowTransparency: 0,
    alt: 0,
    // specifies target context for links with `preload` type
    as: 0,
    async: HAS_BOOLEAN_VALUE,
    autoComplete: 0,
    // autoFocus is polyfilled/normalized by AutoFocusUtils
    //autoFocus: HAS_BOOLEAN_VALUE,
    autoPlay: HAS_BOOLEAN_VALUE,
    // capture:
    hasOwnProperty: 1,
    cellPadding: 0,
    cellSpacing: 0,
    charSet: 0,
    challenge: 0,
    checked: MUST_USE_PROPERTY | HAS_BOOLEAN_VALUE,
    cite: 0,
    className: 0,
    cols: HAS_POSITIVE_NUMERIC_VALUE,
    colSpan: 0,
    content: 0,
    contentEditable: 0,
    contextMenu: 0,
    controls: HAS_BOOLEAN_VALUE,
    controlsList: 0,
    coords: 0,
    crossOrigin: 0,
    data: 0,
    date: 0,
    dateTime: 0,
    default: 0,
    defer: 0,
    dir: 0,
    disabled: HAS_BOOLEAN_VALUE,
    download: HAS_OVERLOADED_BOOLEAN_VALUE,
    draggable: 0,
    encType: 0,
    form: 0,
    formAction: 0,
    formEncType: 0,
    formMethod: 0,
    formNoValidate: HAS_BOOLEAN_VALUE,
    formTarget: 0,
    frameborder: 0,
    headers: 0,
    height: 0,
    hidden: HAS_BOOLEAN_VALUE,
    high: 0,
    href: 0,
    hrefLang: 0,
    htmlFor: 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,
```
onFocusIn and onFocusOut. ' + 'All React events are normalized to bubble, so onFocusIn and onFocusOut ' + 'are not needed/supported by React.' : void 0;\n })\n !(props.style == null || typeof props.style === 'object') ?
   process.env.NODE_ENV !== 'production' ? invariant(false, 'The `style` prop expects a mapping from style properties to values, not a string. For example, style={\{marginRight: spacing + \Wem\}} when using JSX.\%s', getDeclarationErrorAddendum(component)) : _prodInvariant('62', getDeclarationErrorAddendum(component)) : void 0;\n }\n\nfunction enqueuePutListener(inst, registrationName, listener, transaction) \n  \n  if (transaction.instanceof ReactServerRenderingTransaction) {
    return;\n  }\n  if (process.env.NODE_ENV !== 'production') {
    warnIfIE8OrLessHasNoEventCapturing(registrationName);
  }\n  var containerInfo = inst._hostContainerInfo;\n  var doc = isDocumentFragment ? containerInfo._node : containerInfo._ownerDocument;\n
  listenTo(registrationName, doc);
  transaction.getReactMountReady().enqueue(putListener, { inst: inst,\n    registrationName: registrationName, listener: listener } );\n} \n\nfunction putListener() {
  var listenerToPut = this;
  EventPluginHub.putListener(listenerToPut.inst, listenerToPut.registrationName, listenerToPut.listener);
}\n\nfunction inputPostMount() {
  var inst = this;
  ReactDOMInput.postMountWrapper(inst);
}\n\nfunction textareaPostMount() {
  var inst = this;
  ReactDOMTextarea.postMountWrapper(inst);
}\n\nfunction optionPostMount() {
  var inst = this;
  ReactDOMOption.postMountWrapper(inst);
}\n\nvar 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:\n
    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);
    } else {
      ReactInstrumentation.debugTool.onBeforeMountComponent(contentDebugID, content, debugID);
      ReactInstrumentation.debugTool.onMountComponent(contentDebugID);
    }
  };
}\n\nReactInstrumentation.debugTool.onSetChildren(debugID, [contentDebugID]);
\n\n// There are so many media events, it makes sense to just\n// maintain a list rather than create a `trapBubbledEvent` for each:\nvar mediaEvents = {\n  topAbort: 'abort',\n  topCanPlay: 'canplay',\n  topCanPlayThrough: 'canplaythrough',\n  topDurationChange: 'durationchange',\n  topEmpty: 'emptied',\n  topEncrypted: 'encrypted',\n  topError: 'error',\n  topLoad: 'load',\n  topLoadedData: 'loadeddata',\n  topLoadedMetadata: 'loadedmetadata',\n  topLoadStart: 'loadstart',\n  topPause: 'pause',\n  topPlay: 'play',\n  topProgress: 'progress',\n  topRateChange: 'ratechange',\n  topSeeked: 'seeked',\n  topSeeking: 'seeking',\n  topStalled: 'stalled',\n  topSuspend: 'suspend',\n  topTimeUpdate: 'timeupdate',\n  topVolumeChange: 'volumechange',\n  topWaiting: 'waiting'
};
\n\nfunction trackInputValue() {
  inputValueTracking.track(this);
}\n\nfunction trapBubbledEventsLocal() {
  var var inst = this;\n  // If a component renders to null or if another component fatals and causes\n  // the state of the tree to be corrupted, `node` here can be null:\n  var _rootNodeID = ;\n  if (process.env.NODE_ENV !== 'production') {
    invariant(false, 'Must be mounted to trap events') : _prodInvariant('63') : void 0;\n
    break;\n  }\n  if (\n    case 'audio':\n      case 'video':\n      case 'source':\n      case 'object':\n      case 'embed':\n        var inst._wrapperState.listeners = [ReactBrowserEventEmitter.trapBubbledEvent(topLoad, load, node)];\n        break;\n    }\n  }\n}\n\n// Create listener for each media event\n\nif (mediaEvents.hasOwnProperty(event)) {\n  inst._wrapperState.listeners.push(ReactBrowserEventEmitter.trapBubbledEvent(event, mediaEvents[event],
node));
        }
      }
      break;
    case 'source':
      inst._wrapperState.listeners = [ReactBrowserEventEmitter.trapBubbledEvent('topError', 'error', node)];
      break;
    case 'img':
      inst._wrapperState.listeners = [ReactBrowserEventEmitter.trapBubbledEvent('topLoad', 'load', node)];
      break;
    case 'form':
      inst._wrapperState.listeners = [ReactBrowserEventEmitter.trapBubbledEvent('topReset', 'reset', node),
                                    ReactBrowserEventEmitter.trapBubbledEvent('topSubmit', 'submit', node)];
      break;
    case 'input':
      inst._wrapperState.listeners = [ReactBrowserEventEmitter.trapBubbledEvent('topInvalid', 'invalid', node)];
      break;

    function postUpdateSelectWrapper() {
      ReactDOMSelect.postUpdateWrapper(this);
    }

    function validateDangerousTag(tag) {
      if (!hasOwnProperty.call(validatedTagCache, tag)) {
        !VALID_TAG_REGEX.test(tag) ?
          process.env.NODE_ENV !== 'production' ? invariant(false, 'Invalid tag: %s', tag) : _prodInvariant('65', tag) : void 0;
        validatedTagCache[tag] = true;
      }
    }

    function isCustomComponent(tagName, props) {
      return tagName.indexOf('-') >= 0 || props.is != null;
    }

    var globalIdCounter = 1;

    /**
     * Creates a new React class
     * that is idempotent and capable of containing other
     * React components. It accepts event listeners and DOM
     * properties that are valid according to `DOMProperty`.
     *
     * - Event listeners: `onClick`, `onMouseDown`,
     *   etc.
     * - DOM properties: `className`, `name`, `title`, etc.
     * - The `style` property functions differently from
     *   the DOM API. It accepts an
     *   object mapping of style properties to values.
     *
     * @constructor
     * @extends ReactMultiChild
     */
    function ReactDOMComponent(element) {
      var tag = element.type;
      validateDangerousTag(tag);
      this._currentElement = element;
      this._tag = tag.toLowerCase();
      this._namespaceURI = null;
      this._renderedChildren = null;
      this._previousStyle = null;
      this._previousStyleCopy = null;
      this._hostNode = null;
      this._hostParent = null;
      this._rootNodeID = 0;
      this._domID = 0;
      this._hostContainerInfo = null;
      this._wrapperState = null;
      this._topLevelWrapper = null;
      this._flags = 0;
      if (process.env.NODE_ENV !== 'production') {
        this._ancestorInfo = null;
      }
    }

    ReactDOMComponent.displayName = 'ReactDOMComponent';

    ReactDOMComponent.Mixin = {
      /**
       * Generates root tag markup then recurses.
       * This method has side effects and
       * is not idempotent.
       *
       * @internal
       * @param {ReactReconcileTransaction|ReactServerRenderingTransaction} transaction
       * @param {ReactDOMComponent} the parent component instance
       * @param {?object} context
       * @return {string} The computed markup.
       */
      mountComponent: function (transaction, hostParent, hostContainerInfo, context) {
        this._rootNodeID = globalIdCounter++;
        this._domID = hostContainerInfo._idCounter++;
        this._hostParent = hostParent;
        this._hostContainerInfo = hostContainerInfo;
        this._wrapperState = null;
        this._topLevelWrapper = null;
        this._flags = 0;
        if (process.env.NODE_ENV !== 'production') {
          this._ancestorInfo = null;
        }
        setAndValidateContentChildDev.call(this, null);
        this._domID = ReactDOMComponent.displayName = 'ReactDOMComponent';
        this._ReactDOMComponent.Mixin = (null || this._ReactDOMComponent.Mixin);
ReactDOMOption.mountWrapper(this, props, hostParent);
        props = ReactDOMOption.getHostProps(this, props);
        break;
    case 'select':
        ReactDOMSelect.mountWrapper(this, props, hostParent);
        props = ReactDOMSelect.getHostProps(this, props);
        break;
    case 'textarea':
        ReactDOMTextarea.mountWrapper(this, props, hostParent);
        props = ReactDOMTextarea.getHostProps(this, props);
        break;
    case 'input':
        if (props.autoFocus) {
            transaction.getReactMountReady().enqueue(AutoFocusUtils.focusDOMComponent, this);
        }
        break;
    case 'textarea':
        if (props.autoFocus) {
            transaction.getReactMountReady().enqueue(AutoFocusUtils.focusDOMComponent, this);
        }
        break;
    case 'select':
        if (props.autoFocus) {
            transaction.getReactMountReady().enqueue(AutoFocusUtils.focusDOMComponent, this);
        }
        break;
    case 'button':
        if (props.autoFocus) {
            transaction.getReactMountReady().enqueue(AutoFocusUtils.focusDOMComponent, this);
        }
        break;
    default:
        if (hostParent != null) {
            var namespaceURI = hostParent._namespaceURI;
            var parentTag = hostParent._tag;
        } else if (hostContainerInfo._tag) {
            var namespaceURI = hostContainerInfo._namespaceURI;
            var parentTag = hostContainerInfo._tag;
        } else {
            var namespaceURI = null;
        }

        if (namespaceURI == null || namespaceURI === DOMNamespaces.svg && parentTag === 'foreignobject') {
            var namespaceURI = DOMNamespaces.html;
        } else if (namespaceURI === DOMNamespaces.html) {
            if (this._tag == 'svg') {
                namespaceURI = DOMNamespaces.svg;
            } else if (this._tag == 'math') {
                namespaceURI = DOMNamespaces.mathml;
            }
        }
        this._namespaceURI = namespaceURI;
        break;

        var visitorTagProps;
        if (process.env.NODE_ENV !== 'production') {
            var parentInfo;
            if (hostParent != null) {
                parentInfo = hostParent._ancestorInfo;
            } else if (hostContainerInfo._tag) {
                parentInfo = hostContainerInfo._ancestorInfo;
            }
            if (parentInfo) {
                validateDOMNesting(this._tag, null, this, parentInfo);
            }
            this._ancestorInfo = validateDOMNesting.updatedAncestorInfo(parentInfo, this._tag, this);
        }

        var mountImage;
        if (transaction.useCreateElement) {
            var ownerDocument = hostContainerInfo._ownerDocument;
            var el;
            if (namespaceURI === DOMNamespaces.html) {
                if (this._tag == 'script') {
                    var div = ownerDocument.createElement('div');
                    var type = this._currentElement.type;
                    div.innerHTML = '<' + type + '></' + type + '>
                } else if (props.is) {
                    el = ownerDocument.createElement(this._currentElement.type, props.is);
                } else {
                    el = ownerDocument.createElementNS(this._currentElement.type, this._currentElement.type);
                }
            } else {
                el = ownerDocument.createElementNS(namespaceURI, this._currentElement.type);
            }
        } else {
            var tagOpen = this._createOpenTagMarkupAndPutListeners(transaction, props);
            var tagContent = this._createContentMarkup(transaction, props, context);
            if (tagContent) {
                var childTree = DOMLazyTree(el);
                InsertNodes(childTree, context);
                this._updateDOMProperties(null, props, transaction);
                var lazyTree = DOMLazyTree(el);
                this._createInitialChildren(transaction, props, context, lazyTree);
                mountImage = lazyTree;
            } else {
                var tagOpen = this._createOpenTagMarkupAndPutListeners(transaction, props);
                var tagContent = this._createContentMarkup(transaction, props, context);
                if (!tagContent && !omittedCloseTags[this._tag]) {
                    var mountImage = tagOpen + '</' + this._currentElement.type + '>
                } else {
                    mountImage = tagOpen + '>' + tagContent + '</' + this._currentElement.type + '>
                }
            }
        }
        break;

        if (this._hostParent) {
            DOMPropertyOperations.setAttributeForRoot(el);
        }

        var lazyTree = DOMLazyTree(el);
        this._createInitialChildren(transaction, props, context, lazyTree);
        mountImage = lazyTree;
        } else {
            var tagOpen = this._createOpenTagMarkupAndPutListeners(transaction, props);
            var tagContent = this._createContentMarkup(transaction, props, context);
            if (!tagContent && !omittedCloseTags[this._tag]) {
                var mountImage = tagOpen + '</' + this._currentElement.type + '>
            } else {
                mountImage = tagOpen + '>' + tagContent + '</' + this._currentElement.type + '>
            }
        }
        break;
    case 'textarea':
        transaction.getReactMountReady().enqueue(AutoFocusUtils.focusDOMComponent, this);
        break;
    case 'textarea':
        transaction.getReactMountReady().enqueue(AutoFocusUtils.focusDOMComponent, this);
        break;
    case 'button':
        transaction.getReactMountReady().enqueue(AutoFocusUtils.focusDOMComponent, this);
        break;
    default:
        break;
    }
case 'option':
                transaction.getReactMountReady().enqueue(optionPostMount, this);
                break;
            }

        return mountImage;
    },

    /**
     * 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.
     * @see http://jsperf.com/obj-vs-arr-iteration
     * @private
     * @param {ReactReconcileTransaction|ReactServerRenderingTransaction} transaction
     * @param {object} props
     * @return {string} Markup of opening tag.
     */
    _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') {
                // See `_updateDOMProperties`. style block
                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;
    },

    _createInitialChildren: function (transaction, props, context, lazyTree) {
      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;
        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);
          }
          var mountImages = this.mountChildren(childrenToUse, transaction, context);
          ret = mountImages.join('');
          // Prefer to break when application/xml over text/html (for now) by adding
          // a newline specifically to get eaten by the parser. (Alternately for textareas, replacing
          // "\n" with "\r\n"
          // doesn't get eaten, and the first
          // text/html ignores the first character in these tags if it's a newline
          // // from <http://www.w3.org/TR/html5/syntax.html#parsing-main-inbody>
          if (newlineEatingTags[this._tag] &
            ret.charAt(0) !== ' ' + this._hostname) {
            ret = ret.substr(1);
          }
          // Avoid setting textContent when the text is empty. In IE11 setting
          // textContent on a textarea will cause the placeholder to
DOMLazyTree.queueText(lazyTree, contentToUse); } else if (childrenToUse !== null) {
  var mountImages = this.mountChildren(childrenToUse, transaction, context);
  for (var i = 0; i < mountImages.length; i++) {
    DOMLazyTree.queueChild(lazyTree, mountImages[i]);
  }
}

 ReactElement nextElement
  * @param ReactReconcileTransaction ReactServerRenderingTransaction
  transaction
  * @param object context
  * @return {ReactReconcileTransaction} newTransaction
  * @private

 DOMTextarea.getHostProps(this, nextProps);

 ReactDOMSelect.getHostProps(this, nextProps);

 ReactDOMInput.getHostProps(this, nextProps);

 ReactDOMInput.getHostProps(this, lastProps);

 nextProps;

 switch (this._tag) {
   case 'input':
     lastProps = ReactDOMInput.getHostProps(this, lastProps);
   case 'select':
     lastProps = ReactDOMSelect.getHostProps(this, lastProps);
   case 'textarea':
     lastProps = ReactDOMTextarea.getHostProps(this, lastProps);
     break;
   default:
     nextProps = ReactComponentFactory.createDOMPropertyFromJS(nextProps);
     break;
 }

个交易prop的value，我们更新其DOM属性。否则，HTML5输入验证会
raise warnings and prevent the new value from being assigned.

 We also check that we haven’t missed a value update, such as a
Radio group shifting the checked value to another named radio input.

 inputValueTracking.updateValueIfChanged(this);
DOMPropertyOperations.deleteValueForAttribute(getNode(this), propKey);
} else if (DOMProperty.properties[propKey] || DOMProperty.isCustomAttribute(propKey)) {

DOMPropertyOperations.deleteValueForProperty(getNode(this), propKey);
} 

for (propKey in nextProps) {
  var nextProp = nextProps[propKey];
  var lastProp = propKey === STYLE ?
    lastProps !== null ? lastProps[propKey] : undefined;

  if (!lastProps.hasOwnProperty(propKey) || nextProp === lastProp || nextProp == 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;
    }
    // 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 if (registrationNameModules.hasOwnProperty(propKey)) {
    if (nextProp) {
      enqueuePutListener(this, propKey, nextProp, transaction);
    } else if (lastProp) {
      deleteListener(this, propKey);
    }
  }
}

else if (isCustomComponent(this._tag, nextProps)) {
  if (!RESERVED_PROPS.hasOwnProperty(propKey)) {
    DOMPropertyOperations.setValueForAttribute(getNode(this), propKey, nextProp);
  }
}

DOMPropertyOperations.deleteValueForProperty(node, propKey, nextProp);
}
}

}

for (propKey in nextProps) {
  var nextProp = nextProps[propKey];
  var lastProp = propKey === STYLE ?
    lastProps !== null ? lastProps[propKey] : undefined;

  if (!nextProps.hasOwnProperty(propKey) || nextProp === lastProp || nextProp == 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;
    }
    // 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 if (registrationNameModules.hasOwnProperty(propKey)) {
    DOMPropertyOperations.setValueForProperty(node, propKey, nextProp);
  } else if (DOMProperty.properties[propKey] || 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, nextProp); 
    } else {
      DOMPropertyOperations.deleteValueForProperty(node, propKey);
    }
  }
}

if (styleUpdates) {
  CSSPropertyOperations.setValueForStyles(getNode(this), styleUpdates, this);
}

/**
 * Reconciles the children with the various properties that affect the
 * children content.
 *
 * @param {object} lastProps
 * @param {object} nextProps
 * @param {ReactReconcileTransaction} transaction
 * @param {object} context
 */
this._updateDOMChildren = function (lastProps, nextProps, 
  transaction, context) {
  var lastContent = CONTENT_TYPES[typeof lastProps.children] ? lastProps.children : null;
  var nextContent = CONTENT_TYPES[typeof nextProps.children] ? nextProps.children : null;

  var lastHtml = lastProps.dangerouslySetInnerHTML && lastProps.dangerouslySetInnerHTML.__html;
  var nextHtml = nextProps.dangerouslySetInnerHTML && nextProps.dangerouslySetInnerHTML.__html;

  // Note
  // The use of `!==` which checks for null or undefined.
  var lastChildren = lastContent !== null ? null : lastProps.children;
  var nextChildren = nextContent !== null ? null : nextProps.children;

  if (lastChildren === null) {
    // If we're switching from children to content/html or vice versa, remove
    // the old content
    var lastHasContentOrHtml = lastContent !== null || lastHtml !== null;
    if (!lastHasContentOrHtml) {
      this.updateChildren(null, transaction, context);
    } else if (lastHasContentOrHtml && lastContent !== null) {
      lastContent = null;
      lastHtml = null;
      var lastHasContentOrHtml = lastContent !== null || lastHtml !== null;
      if (!lastHasContentOrHtml) {
        this.updateChildren(null, null, transaction, context);
      } else if (process.env.NODE_ENV !== 'production') {
        ReactInstrumentation.debugTool.onSetChildren(this._debugID, []);
      }
    }
  } else if (nextChildren === null) {
    // Relies on `updateStylesByID` not mutating
    var styleUpdates = this._previousStyleUpdates;
    this._previousStyleUpdates = null;

    if (styleUpdates) {
      CSSPropertyOperations.setValueForStyles(getNode(this), styleUpdates, this);
    }

    // Reconciles the children with the various properties that affect them.
    var childrenContent = _assign({}, lastChildren, nextChildren);
  } else if (this._tag !== null) {
    if (this._tag !== DOM) {
      return this._updateChildren(lastProps, nextProps, transaction, context);
    }
  }
}

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warnedStyleNames[name] = true;
process.env.NODE_ENV !== 'production' ? warning(false, 'Unsupported vendor-prefixed style property %s. Did you mean %s? %s', name, name.charAt(0).toUpperCase() + name.slice(1), checkRenderMessage(owner)) : void 0;

var warnStyleValueWithSemicolon = function (name, value, owner) {
  if (warnedStyleValues.hasOwnProperty(name) && warnedStyleValues[name] === true) {
    process.env.NODE_ENV !== 'production' ? warning(false, \`Property values shouldn't contain a semicolon. %s \+ ???%s\+ \"+ Try \"%s: %s\" instead.\`, checkRenderMessage(owner), name, value, replace(badStyleValueWithSemicolonPattern, "");
    return;
  }

  warnedStyleValues[name] = true;
  if (process.env.NODE_ENV !== 'production') {
    warning(false, 'Unsupported vendor-prefixed style property %s. Did you mean %s? %s', name, name.charAt(0).toUpperCase() + name.slice(1), checkRenderMessage(owner));
  }

  value = value.replace(badStyleValueWithSemicolonPattern, "");
  if (process.env.NODE_ENV !== 'production') {
    warning(false, 'Unsupported vendor-prefixed style property %s. Did you mean %s? %s', name, name.charAt(0).toUpperCase() + name.slice(1), checkRenderMessage(owner));
  }

  warnedStyleValues[name] = true;
  if (process.env.NODE_ENV !== 'production') {
    warning(false, 'Unsupported vendor-prefixed style property %s. Did you mean %s? %s', name, name.charAt(0).toUpperCase() + name.slice(1), checkRenderMessage(owner));
  }

  var owner;
  if (component) {
    owner = component._currentElement._owner;
  }

  if (name.indexOf('-') > -1) {
    warnHyphenatedStyleName(name, owner);
  } else if (badVendoredStyleNamePattern.test(name)) {
    warnBadVendoredStyleName(name, owner);
  } else if (badStyleValueWithSemicolonPattern.test(value)) {
    warnStyleValueWithSemicolon(name, value, owner);
  }

  if (typeof value === 'number' && isNaN(value)) {
    warnStyleValueIsNaN(name, value, owner);
  }

  var checkRenderMessage = function (owner) {
    if (owner) {
      var name = owner.getName();
      if (name) {
        return ' Check the render method of `' + name + `.
      }
    }
    return '';
  }

  /**
   * @param {string} name
   * @param {*} value
   * @param {ReactDOMComponent} component
   */
  var warnValidStyle = function (name, value, component) {
    var owner;
    if (component) {
      owner = component._currentElement._owner;
    }

    if (name.indexOf('-') > -1) {
      warnHyphenatedStyleName(name, owner);
    } else if (badVendoredStyleNamePattern.test(name)) {
      warnBadVendoredStyleName(name, owner);
    } else if (badStyleValueWithSemicolonPattern.test(value)) {
      warnStyleValueWithSemicolon(name, value, owner);
    }

    if (typeof value === 'number' && isNaN(value)) {
      warnStyleValueIsNaN(name, value, owner);
    }

    if (name.indexOf('-') > -1) {
      warnHyphenatedStyleName(name, owner);
    } else if (badVendoredStyleNamePattern.test(name)) {
      warnBadVendoredStyleName(name, owner);
    } else if (badStyleValueWithSemicolonPattern.test(value)) {
      warnStyleValueWithSemicolon(name, value, owner);
    }

    if (successForNaNValue) {
      return;
    }

    successForNaNValue = true;
    if (process.env.NODE_ENV !== 'production') {
      warning(false, 'Syntax error: NaN is not a valid value for the style property.
    }
  }

  /**
   * Operations for dealing with CSS properties.
   */
  var CSSPropertyOperations = {
    /**
     * Serializes a mapping of style properties for use as inline styles:
     *   > createMarkupForStyles({width: '200px', height: 0})
     * "width:200px;height:0;"
     * Undefined values are ignored so that declarative programming is easier.
     * The result should be HTML-escaped before insertion into the DOM.
     * @param {object} styles
     * @param {ReactDOMComponent} component
     */
    createMarkupForStyles: function (styles, component) {
      var serialized = '';
      for (var styleName in styles) {
        if (!styles.hasOwnProperty(styleName)) {
          continue;
        }

        var isCustomProperty = styleName.indexOf('--') === 0;
        var styleValue = styles[styleName];

        if (process.env.NODE_ENV !== 'production') {
          if (!isCustomProperty) {
            warnValidStyle(styleName, styleValue, component);
          }
        }

        if (styleValue != null) {
          serialized += processStyleName(styleName) + ':';
          serialized += dangerousStyleValue(styleName, styleValue, component, isCustomProperty) + ';';
        }
      }
      return serialized || null;
    },

    /**
     * Sets the value for multiple styles on a node.  If a value is specified as
     * an empty string, the corresponding style property will be unset.
     * @param {DOMElement} node
     * @param {object} styles
     * @param {ReactDOMComponent} component
     */
    setValueForStyles: function (node, styles, component) {
      if (process.env.NODE_ENV !== 'production') {
        ReactInstrumentation.debugTool.onHostOperation({
          instanceID: component._debugID,
          type: 'update styles',
          payload: styles
        });
      }

      var style = node.style;
      for (var styleName in styles) {
        if (!styles.hasOwnProperty(styleName)) {
          continue;
        }

        var isCustomProperty = styleName.indexOf('--') === 0;
        var styleValue = styles[styleName];
        var expandedValue = hasShorthandPropertyBug && CSSProperty.shorthandPropertyExpansions[styleName];

        if (process.env.NODE_ENV !== 'production') {
          if (!isCustomProperty) {
            warnValidStyle(styleName, styleValue, component);
          }
        }

        if (styleValue != null) {
          serialized += processStyleName(styleName) + ':';
          serialized += dangerousStyleValue(styleName, styleValue, component, isCustomProperty) + ';';
        }
      }
      return serialized || null;
    }
  },

  module.exports = CSSPropertyOperations;

  /* global module */
* LICENSE file in the root directory of this source tree.

```javascript

'use strict';

var camelize = require('./camelize');

var msPattern = /^-ms-/;

/**
 * Camelcases a hyphenated CSS property name, for example:
 * camelizeStyleName('background-color')
 *   < 'backgroundColor'
 * @param {string} string
 * @return {string}
 */
function camelizeStyleName(string) {
  return camelize(string.replace(msPattern, 'ms-'));
}

module.exports = camelizeStyleName;

```
hyphenateStyleName('MozTransition')\n  * \n  * \n  * As Modernizr suggests (http://modernizr.com/docs/#prefixed), an `ms` prefix\n  * is converted to `-ms-` \n  * @param {string} string \n  * @return {string} \n  */

function hyphenateStyleName(styleName) {
  return hyphenate(styleName).replace(/\bms\b/i, '-ms-');
}

module.exports = hyphenateStyleName;


function memoizeStringOnly(callback) {
  var cache = {};
  return function (string) {
    if (!cache.hasOwnProperty(string)) {
      cache[string] = callback.call(this, string);
    }
    return cache[string];
  };
}

module.exports = memoizeStringOnly;


function quoteAttributeValueForBrowser(value) {
  return '"' + escapeTextContentForBrowser(value) + '"';
}

module.exports = quoteAttributeValueForBrowser;


function ReactEventEmitterMixin = (function () {

  var ReactEventEmitterMixin = {
    /**
     * Streams a fired top-level event to EventPluginHub where plugins have
     * opportunity to create ReactEvents to be dispatched.\n     * handleTopLevel: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) { \n     * \n     */

});

module.exports = ReactEventEmitterMixin;


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makePrefixMap('Transition', 'TransitionEnd');

var prefixedEventNames = {};

/**
 * Event names that have already been detected and prefixed (if applicable).
 */
var prefixedStyle = {};

/**
 * Bootstrap if a DOM exists.
 */
if (ExecutionEnvironment.canUseDOM) {
  var 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.transition;
  }

  // Attempts to determine the correct vendor prefixed event name.

  var prefixMap = vendorPrefixes[eventName];

  for (var styleProp in prefixMap) {
    if (prefixMap.hasOwnProperty(styleProp) && styleProp in style) {
      prefixedEventNames[eventName] = prefixMap[styleProp];
    }
  }
}

/**
 * Attempts to determine the correct vendor prefixed event name.
 *
 * @param {string} eventName
 * @returns {string}
 */
function getVendorPrefixedEventName(eventName) {
  if (prefixedEventNames[eventName]) {
    return prefixedEventNames[eventName];
  } else if (!vendorPrefixes[eventName]) {
    return eventName;
  }

  var prefixMap = vendorPrefixes[eventName];

  for (var styleProp in prefixMap) {
    if (prefixMap.hasOwnProperty(styleProp) && styleProp in style) {
      return prefixedEventNames[eventName] = prefixMap[styleProp];
    }
  }
}

module.exports = getVendorPrefixedEventName;


//////////////////
// WEBPACK FOOTER
// module id = 807
// module chunks = 0

/**
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant'),
    _assign = require('object-assign');

var DOMPropertyOperations = require('./DOMPropertyOperations');
var LinkedValueUtils = require('./LinkedValueUtils');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactUpdates = require('./ReactUpdates');

var invariant = require('fbjs/lib/invariant');
var warning = require('fbjs/lib/warning');

var didWarnValueLink = false;
var didWarnCheckedLink = false;
var didWarnValueDefaultValue = false;
var didWarnCheckedDefaultChecked = false;
var didWarnControlledToUncontrolled = false;
var didWarnUncontrolledToControlled = false;

function forceUpdateIfMounted() {
  if (this._rootNodeID) {
    ReactDOMInput.updateWrapper(this);
  }
}

function isControlled(props) {
  var usesChecked = props.type === 'checkbox' || props.type === 'radio';
  return usesChecked ? props.checked != null : props.value != null;
}

/**
 * Implements an <input> host component that allows setting these optional
 * props: `checked`, `value`, `defaultChecked`, and `defaultValue`.
 *
 * If `checked` or `value` are not supplied (or null/undefined),
 * user actions
 * that affect the checked state or value will trigger updates to the element.
 *
 * If they are supplied
 * change in order for the rendered element to be updated.
 *
 * The rendered element will be initialized as
 * unchecked (or `defaultChecked`) with an empty value (or `defaultValue`).
 */
var ReactDOMInput = {
  getHostProps: function (inst, props) {
    var value = LinkedValueUtils.getValue(props);
    var checked = LinkedValueUtils.getChecked(props);

    var hostProps = _assign({
      type: undefined,
      // Make sure we set .step before any other properties
      // (setting .value before .step in IE11 and below)
      type: undefined,
      // Make sure we set .step before .value (setting .value before .step in
      // Issue #7170)
      step: undefined,
    }, props, {
      defaultChecked: undefined,
      defaultValue: undefined,
      value: value != null ? value : inst._wrapperState.initialValue,
      checked: checked != null ? checked : undefined,
    });
    return hostProps;
  },

  mountWrapper: function (inst, props) {
    if (process.env.NODE_ENV !== 'production') {
      LinkedValueUtils.checkPropTypes('input', props, inst._currentElement._owner);
      var owner = inst._currentElement._owner;
      var didWarnValueLink = !didWarnValueLink && !!didWarnValueLink;
    }
    ReactDOMInput.mountWrapper(this);
and 'onChange instead.') : void 0;
}

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;
}

didWarnCheckedLink = true;

if (props.checked !== undefined &
  & props.defaultChecked !== undefined &
  & !didWarnCheckedDefaultChecked) {
  process.env.NODE_ENV !== 'production' ? warning(false, '%s contains an input of type %s with both checked and defaultChecked props. ' + 'Input elements must be either controlled or uncontrolled ' + (specify either the checked prop, or the defaultChecked prop, but not \'+\' both). Decide between using a controlled or uncontrolled input \'+\' element and remove one of these props. More info: '+'

  'https://fb.me/react-controlled-components', owner &
  & owner.getName() || \'A component\', props.type) : void 0;
}

if (props.value !== undefined &
  & props.defaultValue !== undefined &
  & !didWarnValueDefaultValue) {
  process.env.NODE_ENV !== 'production' ? warning(false, '%s contains an input of type %s with both value and defaultValue props. ' + 'Input elements must be either controlled or uncontrolled ' + (specify either the value prop, or the defaultValue prop, but not \'+\' both). Decide between using a controlled or uncontrolled input \'+\' element and remove one of these props. More info: '+'

  'https://fb.me/react-controlled-components', owner &
  & owner.getName() || \'A component\', props.type) : void 0;
}

defaultValue = props.defaultValue;

inst._wrapperState = {
  initialChecked: props.checked != null ? props.checked : props.defaultChecked,
  initialValue: props.value != null ? props.value : defaultValue,
  listeners: null,
  onChange: _handleChange.bind(inst),
  controlled: isControlled(props)
};

updateWrapper: function (inst) {
  var props = inst._currentElement.props;

  if (process.env.NODE_ENV !== 'production') {
    var controlled = isControlled(props);
    var owner = inst._currentElement._owner;

    if (!inst._wrapperState.controlled &&
        controlled &
        & !didWarnUncontrolledToControlled) {
      process.env.NODE_ENV !== 'production' ? warning(false, '%s is changing an uncontrolled input of type %s to be controlled. ' + 'Input elements should not switch from uncontrolled to controlled (or vice versa). ' + 'Decide between using a controlled or uncontrolled input ' + \'+\' element for the lifetime of the component. More info: '+'

      'https://fb.me/react-controlled-components', owner &
      & owner.getName() || \'A component\', props.type) : void 0;
    }

    if (inst._wrapperState.controlled &&
        !controlled &
        & !didWarnControlledToUncontrolled) {
      process.env.NODE_ENV !== 'production' ? warning(false, '%s is changing a controlled input of type %s to be uncontrolled. ' + 'Input elements should not switch from controlled to uncontrolled (or vice versa). ' + 'Decide between using a controlled or uncontrolled input ' + \'+\' element for the lifetime of the component. More info: '+'

      'https://fb.me/react-controlled-components', owner &
      & owner.getName() || \'A component\', props.type) : void 0;
    }

    // TODO: Shouldn't this be getChecked(props)?

    if (checked != null) {
      DOMPropertyOperations.setValueForProperty(ReactDOMComponentTree.getNodeFromInstance(inst), 'checked',
          checked || false);
    }

    var node = ReactDOMComponentTree.getNodeFromInstance(inst);
    var value = LinkedValueUtilities.getValue(props);

    if (value != null) {
      if (value === 0 && node.value === '') {
        node.value = '0';
        // Note: IE9 reports a number inputs as \text\'', so check props instead.
      } else if
          (props.type === \'number\') {
        // Simulate \text\ inputAsNumber\'. IE9 does not support it
          var valueAsNumber = parseFloat(node.value, 10) || 0;
          if (\text\ is not a valid email address\''

          // Cast \text\ to a string to ensure the value is set correctly. While
          browsers typically do this as necessary, jsdom doesn't:\n          node.value = '' + value;
        } else if
          (props.value !== value) {
        // Cast \text\ to a string to ensure the value is set correctly. While
          browsers typically do this as necessary, jsdom doesn't:\n          node.value = '' + value;
        } else {
          if

          // In Chrome, assigning defaultValue to certain input types triggers input validation.\n          number inputs, the display value loses trailing decimal points. For email inputs,\n          Chrome raises \'The specified value \text\ is not a valid email address\'\n
          // Here we check to see if the defaultValue has actually changed, avoiding these problems\n          when the user is inputting text\n
          //
https://github.com/facebook/react/issues/7253

if (node.defaultValue !== " + props.defaultValue) {
  node.defaultValue = " + props.defaultValue;
}

if (props.checked == null &&
  props.defaultChecked != null) {
  node.defaultChecked = !!props.defaultChecked;
}

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.

  if (node.checked === null) {
    node.checked = props.checked;
  } else {
    node.checked = !!props.checked;
  }

  // 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.

  var name = node.name;
  if (name !== '') {
    node.name = '';
  }

  // If this is a controlled radio button group, forcing the input
  // that was previously checked to update will cause it to be re-checked
  // as appropriate.

  ReactUpdates.asap(forceUpdateIfMounted, inst);

  var rootNode = ReactDOMComponentTree.getNodeFromInstance(this);
  var queryRoot = rootNode;

  while (queryRoot.parentNode) {
    queryRoot = queryRoot.parentNode;
  }

  // If `rootNode.form` was non-null,
  // we could try `form.elements`,
  // but that sometimes behaves strangely in IE8. We could also try using
  // `form.getElementsByName`, but that will only return direct children
  // and won't include inputs that use the
  // HTML5 `form` attribute. Since we need to use the global
  // `querySelectorAll` to ensure we don't miss anything.

  var group = queryRoot.querySelectorAll('input[name=' + JSON.stringify('' + name) + '][type="radio"]');

  for (var i = 0; i < group.length; i++) {
    var otherNode = group[i];
    if (otherNode === rootNode || otherNode.form !== rootNode.form) {
      continue;
    }

    // This will throw if radio buttons rendered by different copies of React
    // and 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);
    otherInstance ? otherInstance ? process.env.NODE_ENV !== 'production' ? invariant(false, 'ReactDOMInput: Mixing React and non-React radio inputs with the same `name` is not supported.') : _prodInvariant('90') : void 0 : null; // If this is a controlled radio button group, forcing the input
    // that was previously checked to update will cause it to be re-checked
    // as appropriate.

    ReactUpdates.asap(forceUpdateIf Mounted, otherInstance);

    var returnValue = ReactDOMInput
        .getNodeFromInstance(inst);

    // WEBPACK FOOTER
    // ./node_modules/react-dom/lib/ReactDOMInput.js
    // module id = 808
    // module chunks = 0
    // 

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    // LICENSE file in the root
directory of this source tree.

    var ReactPropTypesSecret =
        'SECRET_DO_NOT_PASS_THIS_OR_YOU_WILL_BE_FIRED';

    exports = ReactPropTypesSecret
        .getNodeFromInstance(inst);

    exports = ReactPropTypesSecret
        .getNodeFromInstance(inst);

    // WEBPACK FOOTER
    // ./node_modules/react-dom/lib/ReactDOMInput.js
    // module id = 809
    // module chunks = 0
    // 
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directory of this source tree.\n
*\n
*/

`use strict';

var _assign = require('object-assign');

var React = require('react/lib/React');

var ReactDOMComponentTree = require('./ReactDOMComponentTree');

var ReactDOMSelect = require('./ReactDOMSelect');

var warning = require('fbjs/lib/warning');

var didWarnInvalidOptionChildren = false;

function flattenChildren(children) {
  var content = '';

  // Flatten children and warn if they aren't strings or numbers;
  // invalid types are ignored.

  React.Children.forEach(children, function (child) {
    if (child == null) {
      return;
    }
    if (typeof child === 'string' || typeof child === 'number') {
      content += child;
    } else if (!didWarnInvalidOptionChildren) {
      didWarnInvalidOptionChildren = true;
      warning(false, 'Only strings and numbers are supported as option children.');
    }
  });

  return content;
}

/**
 * Implements an option host component that warns when `selected` is set.
 */

var ReactDOMOption = {

  mountWrapper: function (inst, props, hostParent) {
    // TODO (yungsters): Remove support for `selected` in <option>.

    if (process.env.NODE_ENV !== 'production') {
      warning(props.selected == null, 'Use the `defaultValue` or `value` props on <select> instead of setting `selected` on <option>.

    )
    }

    // Look up whether this option is selected.
    var selectValue = null;
    if (hostParent != null) {
      var selectParent = hostParent;

      if (selectParent._tag === 'optgroup') {
        selectParent = selectParent._hostParent;
      }

      if (selectParent != null && selectParent._tag === 'select') {
        selectValue = ReactDOMSelect.getSelectValueContext(selectParent);
      }
    }

    if (selectValue != null) {
      var value;
      if (props.value != null) {
        value = props.value;
      } else {
        value = flattenChildren(props.children);
      }
      selected = false;

      if (Array.isArray(selectValue)) {
        // multiple
        for (var i = 0; i < selectValue.length; i++) {
          if ('' + selectValue[i] === value) {
            selected = true;
            break;
          }
        }
      } else {
        selected = '' + selectValue === value;
      }
    }

    var node = ReactDOMComponentTree.getNodeFromInstance(inst);
    var propName = 'value';

    if (props.value) {
      node.setAttribute(propName, props.value);
    } else {
      node.removeAttribute(propName);
    }
  },

  postMountWrapper: function (inst) {
    // value="" should make a value attribute (#6219)
    var propName = 'value';

    if (props.value) {
      var node = ReactDOMComponentTree.getNodeFromInstance(inst);
      node.setAttribute(propName, props.value);
    } else {
      node.removeAttribute(propName);
    }
  },

  getHostProps: function (inst, props) {
    var hostProps = _assign({ selected: undefined, children: undefined }, props);

    // Read state only from initial mount because <select> updates value
    // manually; we need the initial state only for server rendering
    if (inst._state.selected != null) {
      hostProps.selected = inst._state.selected;
    }

    if (props.value != null) {
      hostProps.value = props.value;
    }

    return hostProps;
  }
};

module.exports = ReactDOMOption;
invariant(false, "dangerouslySetInnerHTML` does not make sense on `<textarea>`."); _prodInvariant('91'); void
0; // Always set children to the same thing. In IE9, the selection range will
// get reset if `textContent` is mutated. We could add a check in setTextContent
// to only set the value if/when the value differs from the node value (which wouldn
// completely solve this IE9 bug), but Sebastian+Ben seemed to like this solution.
// The value can be a boolean or object so that's why it's forced to be a string. 
var hostProps = _assign({}, props, { 
  value: undefined, 
  defaultValue: undefined, 
  children: " + inst._wrapperState.initialValue, 
  on: onChange: inst._wrapperState.onChange(
    )
  );

return hostProps;
}

mountWrapper: function (inst, props) {
  if (process.env.NODE_ENV !== 'production') {
    LinkedValueUtils.checkPropTypes('textarea', props, 
      inst._currentElement._owner);
    if (props.valueLink !== undefined && !didWarnValueLink) {
      process.env.NODE_ENV !== 'production' ? warning(false, 'If you supply `defaultValue` on a `<textarea>`, do not pass children.') : void 0;
    }
    if (props.value !== undefined && 

      props.defaultValue !== undefined && 
      !didWarnValDefaultVal) {
      process.env.NODE_ENV !== 'production' ? warning(false, 'Textarea elements must be either controlled or uncontrolled` + `specify either the value prop, or the defaultValue prop, but not` + `both). Decide between using a controlled or uncontrolled textarea` + `and remove one of these props. More info:` + `https://fb.me/react-controlled-components`) : void 0;

    didWarnValDefaultVal = true;
  } 

  var value = LinkedValueUtils.getValue(props);
  var initialValue = value;
  // Only bother fetching default value if we're going to use it!
  if (value == null) {
    var defaultValue = props.defaultValue;
    // TODO (yungsters): Remove support for children content in
    <textarea>
    if (children != null) {
      if (process.env.NODE_ENV !== 'production') {
        process.env.NODE_ENV !== 'production' ? invariant(false, 'If you supply `defaultValue` on a `<textarea>`, do not pass children.') : void 0;
      }
      !(defaultValue == null) ?
        process.env.NODE_ENV !== 'production' ? invariant(false, 'If you supply `defaultValue` on a `<textarea>`, do not pass children.') : _prodInvariant('92') : void 0;
      if (Array.isArray(children)) {
        !(children.length <= 1) ?
          process.env.NODE_ENV !== 'production' ? invariant(false, '<textarea> can only have at most one child.') :
            _prodInvariant('93') : void 0;
        children = children[0];
      }

      defaultValue = '' + children;
    }
    if (defaultValue == null) {
      defaultValue = '';
    }
    initialValue = defaultValue;
  }

  inst._wrapperState = {
    initialValue: '' + initialValue,
    listeners: null,
    onChange: 
      _handleChange.bind(inst)
  };

  return hostProps;
};

module.exports = ReactDOMTextarea;


//////////////////
// WEBPACK
FOOTER
ReactInstrumentation = require('./ReactInstrumentation');

var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');

var ReactReconciler = require('./ReactReconciler');

var ReactChildReconciler = require('./ReactChildReconciler');

var flattenChildren = require('./flattenChildren');

var invariant = require('fbjs/lib/invariant');

/**
 * Make an update for markup to be rendered and inserted at a supplied index.

 * @param {string} markup Markup that renders into an element.
 * @param {number} toIndex Destination index.
 * @return {object} An update to add to the queue.
 */
function makeInsertMarkup(markup, toIndex) {
  return {
    type: 'INSERT_MARKUP',
    content: markup,
    fromIndex: null,
    toIndex: toIndex,
    afterNode: ReactReconciler.getHostNode(this)
  };
}

/**
 * Make an update for moving an existing element to another index.

 * @param {number} fromIndex Source index of the existing element.
 * @param {number} toIndex Destination index of the element.
 * @return {object} An update to add to the queue.
 */
function makeMove(fromIndex, toIndex) {
  return {
    type: 'MOVE_EXISTING',
    content: null,
    fromIndex: fromIndex,
    fromNode: ReactReconciler.getHostNode(this),
    toIndex: toIndex,
    afterNode: ReactReconciler.getHostNode(this)
  };
}

/**
 * Make an update for removing an element at an index.

 * @param {number} fromIndex Index of the element to remove.
 * @return {object} An update to add to the queue.
 */
function makeRemove(fromIndex) {
  return {
    type: 'REMOVE_NODE',
    content: null,
    fromIndex: fromIndex,
    fromNode: null,
    toIndex: null,
    afterNode: null
  };
}

/**
 * Make an update for setting the markup of a node.

 * @param {string} markup Markup that renders into an element.
 * @return {object} An update to add to the queue.
 */
function makeSetMarkup(markup) {
  return {
    type: 'SET_MARKUP',
    content: markup,
    fromIndex: null,
    fromNode: null,
    toIndex: null,
    afterNode: null
  };
}

/**
 * Make an update for setting the text content.

 * @param {string} textContent Text content to set.
 * @return {object} An update to add to the queue.
 */
function makeTextContent(textContent) {
  return {
    type: 'TEXT_CONTENT',
    content: textContent,
    fromIndex: null,
    fromNode: null,
    toIndex: null,
    afterNode: null
  };
}

/**
 * Push an update, if any, onto the queue.

 * @param {object} update An update to add to the queue.
 * @return {object} The queue after the update has been added.
 */
function enqueue(update) {
  if (update) {
    this.queue = this.queue || [];
    this.queue.push(update);
  }
  return this.queue;
}

/**
 * Processes any enqueued updates.

 * @param {null} Up to date react components.
 * @param {number} id This is the index of the child.
 * @return {null} The update queue.
 */
function processQueue(inst, updateQueue) {
  ReactComponentEnvironment.processChildrenUpdates(inst, updateQueue);
}

setChildrenForInstrumentation = emptyFunction;
if (process.env.NODE_ENV !== 'production') {
  setChildrenForInstrumentation = function (children) {
    var debugID = getDebugID(this);
    if (debugID !== 0) {
      ReactInstrumentation.debugTool.onSetChildren(debugID, children ? Object.keys(children).map(function (key) {
        return children[key]._debugID;
      }) : []);
    }
  };
}

ReactMultiChild = {
  **
  * Provides common functionality for components that must reconcile multiple children.
  *
  * @lends ReactMultiChild.prototype
  */
  Mixin: {
    _reconcilerInstantiateChildren: function (nestedChildren, transaction, context) {
      var selfDebugID = getDebugID(this);
      if (selfDebugID == 0) {
        ReactInstrumentation.debugTool.onSetChildren(debugID, children ? Object.keys(children).map(function (key) {
          return children[key]._debugID;
        }) : []);
      }
    };
    _reconcilerUpdateChildren: function (prevChildren, nextChildren, transaction, context) {
      var nextChildren = nextChildren || []; var children = nextChildren || []; var selfDebugID = getDebugID(this);
      if (selfDebugID == 0) {
        ReactInstrumentation.debugTool.onSetChildren(debugID, children ? Object.keys(children).map(function (key) {
          return children[key]._debugID;
        }) : []);
      }
    }
  }
}
ReactCurrentOwner.current = this._currentElement._owner;
nextChildren = flattenChildren(nextNestedChildrenElements, selfDebugID);
} finally {
ReactCurrentOwner.current = null;
}
ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, this, this._hostContainerInfo, context, selfDebugID);
return nextChildren;
}
}
nextChildren = flattenChildren(nextNestedChildrenElements, selfDebugID);
ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, this, this._hostContainerInfo, context, selfDebugID);
return nextChildren;

ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, context) {
var child = this._reconcilerInstantiateChildren(prevChildren, nextChildren, transaction, context);
this._renderedChildren = child;

var mountImages = [];
var index = 0;
for (var name in child) {
if (child.hasOwnProperty(name)) {
var child = child[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, child);
}
return mountImages;
}

ReactChildReconciler.unmountChildren(prevChildren, false);
for (var name in prevChildren) {
if (prevChildren.hasOwnProperty(name)) {
throw invariant(false, 'updateTextContent called on non-empty component.');
}
}
var updates = [makeTextContent(nextContent)];
processQueue(this, updates);

ReactChildReconciler.unmountChildren(prevChildren, false);
for (var name in prevChildren) {
if (prevChildren.hasOwnProperty(name)) {
throw invariant(false, 'updateTextContent called on non-empty component.');
}
}
var updates = [makeSetMarkup(nextMarkup)];
processQueue(this, updates);

ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, context) {
// Hook used by React ART
this._updateChildren(nextNestedChildrenElements, transaction, context);
}

var prevChildren = this._renderedChildren;
var removedNodes = [];
var mountImages = [];
var nextChildren = this._reconcilerUpdateChildren(prevChildren, nextNestedChildrenElements, mountImages, removedNodes, transaction, context);
if (!nextChildren && !prevChildren) {
return;
}
var updates = null;
var name;
for (var name in prevChildren) {
var child = prevChildren[name];
if (prevChildren.hasOwnProperty(name)) {
continue;
}
var prevChild = prevChildren[name];
var nextChild = nextChildren[name];
if (prevChild === nextChild) {
updates = enqueue(updates, this.moveChild(prevChild, lastPlacedNode, nextIndex, lastIndex));
lastIndex = Math.max(prevChild._mountIndex, lastIndex);
} else {
if
(prevChild) { 
    // Update `lastIndex` before `_mountIndex` gets unset by unmounting.
    lastIndex = Math.max(prevChild._mountIndex, lastIndex);
    // The `removedNodes` loop below will actually remove the child.
    
    // The child must be instantiated before it's mounted.
    updates = enqueue(updates,
        this._mountChildAtIndex(nextChild, mountImages[nextMountIndex], lastPlacedNode, nextIndex, transaction, context));
    nextMountIndex++;
  }

  for (name in removedNodes) {
    if (removedNodes.hasOwnProperty(name)) {
      updates = enqueue(updates,
          this._unmountChild(prevChildren[name], removedNodes[name]));
    }
  }
  if (updates) {
    processQueue(this, updates);
  }
  this._renderedChildren = nextChildren;

  if (process.env.NODE_ENV !== 'production') {
    setChildrenForInstrumentation.call(this, nextChildren);
  }

  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.
   * @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.
   * @param {ReactComponent} child Component to mount.
   * @param {string} name Name of the child.
   * @param {number} 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.
   * @param {ReactComponent} child Component to unmount.
   * @param {string} name Name of the child.
   * @param {number} index Index at which to remove the child.
   * @private
   */
  _unmountChild: function (child, node) {
    var update = this.removeChild(child, node);
    child._mountIndex = null;
    return update;
  }
}

module.exports

// WEBPACK FOOTER
// module.id = 812 // node_modules/react-dom/lib/ReactMultiChild.js
// module.id = 812
// module chunks = 0

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directory of this source tree.

// Use strict';

//var ReactReconciler = require('..\..\ReactReconciler');
//var instantiateReactComponent = require('..\..\instantiateReactComponent');
//var KeyEscapeUtils = require('..\..\KeyEscapeUtils');
//var shouldUpdateReactComponent = require('..\..\shouldUpdateReactComponent');


//var 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\ReactComponentTreeHook');
//  function instantiateReactComponent(childInstances, child, name, selfDebugID) {
//    // We found a component instance.
//    var keyUnique = childInstances[name] === undefined;
//    return update = this.removeChild(child, node);
//    child._mountIndex = null;
//    return update;
//  }
//  ...

Open Source Used In MSX SD-WAN Service Pack 4.0.0 20577
```javascript
_assign = require('object-assign');

var React = require('react/lib/React');
var ReactComponentEnvironment = require('./ReactComponentEnvironment');
var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactErrorUtils = require('./ReactErrorUtils');
var ReactInstanceMap = require('./ReactInstanceMap');
var ReactInstrumentation = require('./ReactInstrumentation');
var ReactNodeTypes = require('./ReactNodeTypes');
var ReactReconciler = require('./ReactReconciler');

if (process.env.NODE_ENV !== 'production') {
  var checkReactTypeSpec = require('./checkReactTypeSpec');
}

var emptyObject = require('fbjs/lib/emptyObject');
var invariant = require('fbjs/lib/invariant');
var shallowEqual = require('fbjs/lib/shallowEqual');
var shouldUpdateReactComponent = require('./shouldUpdateReactComponent');
var warning = require('fbjs/lib/warning');

var CompositeTypes = {
  ImpureClass: 0,
  PureClass: 1,
  StatelessFunctional: 2
};

function StatelessComponent(Component) {
  StatelessComponent.prototype.render = function () {
    var Component = ReactInstanceMap.get(this)._currentElement.type;
    var element = Component(this.props, this.context, this.updater);
    warnIfInvalidElement(Component, element);
    return element;
  };
}

function warnIfInvalidElement(Component, element) {
  if (process.env.NODE_ENV !== 'production') {
    process.env.NODE_ENV !== 'production' ? warning(element === null || element === false || React.isValidElement(element), '%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') : void 0;
    process.env.NODE_ENV !== 'production' ? warning(!Component.childContextTypes, '%s(...): childContextTypes cannot be defined on a functional component.', Component.displayName || Component.name || 'Component') : void 0;
  }
}

function shouldConstruct(Component) {
  return !!((Component.prototype && Component.prototype.isReactComponent));
}

function isPureComponent(Component) {
  return !!(Component.prototype && Component.prototype.isPureReactComponent);
}

// Separated into a function to contain deoptimizations caused by try/finally
function measureLifeCyclePerf(fn, debugID, timerType) {
  if (debugID === 0) {
    // Top-level wrappers (see ReactMount) and empty components (see // ReactDOMEmptyComponent) are invisible to hooks and devtools.
    // Both are implementation details that should go away in the future.
    return fn();
  }

  ReactInstrumentation.debugTool.onBeginLifeCycleTimer(debugID, timerType);
  try {
    return fn();
  } finally {
    ReactInstrumentation.debugTool.onEndLifeCycleTimer(debugID, timerType);
  }
}

/**
 * --- The Life-Cycle of a Composite Component ------------------
 *
 * - constructor: Initialization of state. The instance is now retained.
 *   - componentWillMount
 *   - render
 *   - [children's constructors]
 *     - [children's componentWillMount and render]
 *     - [children's componentDidMount]
 *   - [children destroyed]
 * - (destroyed): The instance is now blank, released by React and ready for GC.
 */

/**
 * An incrementing ID assigned to each component when it is mounted. This is
 * used to enforce the order in which `ReactUpdates` updates dirty components.
 * An incrementing ID assigned to each component when it is mounted. This is
 * used to enforce the order in which `ReactUpdates` updates dirty components.
 * @private
 */
var nextMountID = 1;

/**
 * @lends {ReactCompositeComponent.prototype}
 */
var ReactCompositeComponent = {
  /**
   * Base constructor for all composite component.
   *
   * @param
   */
  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._renderedComponent = null;
    this._context = null;
    this._mountOrder = 0;
    this._topLevelWrapper = null;
  }
};
```

// 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') {
      // Since plain JS classes are defined without any special initialization
      // 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, 'getDefaultProps 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.', this.getName() || 'a component') : void 0;
      process.env.NODE_ENV !== 'production' ? warning(!inst.propTypes, 'propTypes was defined as an instance property on %s. Use a ' + 'static property to define propTypes instead.', this.getName() || 'a component') : void 0;
      process.env.NODE_ENV !== 'production' ? warning(typeof inst.componentShouldUpdate !== 'function', '%s has a method called ' + 'componentShouldUpdate(). Did you mean shouldComponentUpdate()? ' + 'The name is phrased as a question ' + 'because the function is ' + 'expected to return a value.', this.getName() || 'A component') : void 0;
    }

    if (process.env.NODE_ENV !== 'production') { // In some cases the instance may have been destroyed by the time the render
      // call happens. Therefore, we need to check if the instance still exists before calling setComponentUpdate
      ReactComponent.Mixin.checkLifecyclesWouldUpdate(inst, this.getInstanceFromRef, this.props);
    } else {

    // We set the internal representation now in the constructor, but as a convenience for
    // simpler class abstractions, we set them up after the fact.
    // Note that this is referencing the internal representation, not the
    // ReactComponent.Mixin, which we set within the constructor.
    if (process.env.NODE_ENV !== 'production') {

      // Store a reference from the instance back to the internal representation
      ReactInstanceMap.set(inst, this);
    }

    // Since plain JS classes are defined without any special initialization
    // 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, 'getDefaultProps 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.', this.getName() || 'a component') : void 0;
    process.env.NODE_ENV !== 'production' ? warning(!inst.propTypes, 'propTypes was defined as an instance property on %s. Use a ' + 'static property to define propTypes instead.', this.getName() || 'a component') : void 0;
    process.env.NODE_ENV !== 'production' ? warning(typeof inst.componentShouldUpdate !== 'function', '%s has a method called ' + 'componentShouldUpdate(). Did you mean shouldComponentUpdate()? ' + 'The name is phrased as a question ' + 'because the function is ' + 'expected to return a value.', this.getName() || 'A component') : void 0;

    process.env.NODE_ENV !== 'production' ? warning(!inst.contextTypes, 'contextTypes was defined as an instance property on %s. Use a ' + 'static property to define contextTypes instead.', this.getName() || 'A component') : void 0;

    // If the constructor returns anything, we expect it to be an instance of
    // ReactComponent.Mixin or a plain object (in which case we convert it to
    // the ReactComponent.Mixin representation). Either way, we only want
    // to have access to the component's public methods, which is why we
    // use the ReactComponent.Mixin (which have the same public methods as
    // ReactComponent, but no private methods).
    var constructorReturn = inst;
method called ' + 'componentDidUnmount()'. But there is no such lifecycle method. ' + 'Did you mean
componentWillUnmount()?', this.getName() || 'A component') : void 0;

process.env.NODE_ENV !== 'production' ? warning(typeof inst.componentWillRecieveProps !== 'function', '%s has a method called ' + 'componentWillRecieveProps(). Did you mean componentWillReceiveProps()?', this.getName() || 'A component') : void 0;

var var initialState = inst.state;

if (initialState === undefined) { inst.state = null;

!(typeof initialState === 'object' & & !Array.isArray(initialState)) ? process.env.NODE_ENV !== 'production' ? invariant(false, '%s.state: must be set to an object or null', this.getName() || 'ReactCompositeComponent') : _prodInvariant('106', this.getName() || 'ReactCompositeComponent') : void 0;

this._pendingStateQueue = null;
this._pendingReplaceState = false;
this._pendingForceUpdate = false;

var markup;

if (inst.unstable_handleError) {
  markup = this.performInitialMountWithErrorHandling(renderedElement, hostParent, hostContainerInfo, transaction, context);
} else {
  markup = this.performInitialMount(renderedElement, hostParent, hostContainerInfo, transaction, context);
}

if (inst.componentWillMount) {
  if (process.env.NODE_ENV !== 'production') {
    measureLifeCyclePerf(function () {
      return inst.componentWillMount();
    }, _this._debugID, 'componentWillMount');
  } else {
    inst.componentWillMount();
  }

  // If the state change is caused by a `setState` call, we will call
  // `nextTick()` to ensure that the next frame is used.
  if (this._pendingStateQueue) {
    inst.state = this._processPendingState(inst.props, inst.context);
  }

  // If there is a next tick function, we should use it to ensure
  // that the next_tick fires.
  if (process.env.NODE_ENV !== 'production' & & typeof inst.componentWillMount !== 'function') {
    this.performInitialMountWithErrorHandling(
      renderedElement, hostParent, hostContainerInfo, transaction, context);
  } else {

    // Render the component
    markup = this.performInitialMount(renderedElement, hostParent, hostContainerInfo, transaction, context);

    this._instance.unstable_handleError(e);
    if (this._pendingStateQueue) {
      this._instance.state = this._processPendingState(inst.props, inst.context);
    }

    // Try again - if the state has not been informed about the error, we cannot render an error message.
    // If the error is caused by a `setState` call, we will call `nextTick()` to ensure that the next frame is used.
    if (this._pendingStateQueue) {
      this.performInitialMountWithErrorHandling(renderedElement, hostParent, hostContainerInfo, transaction, context);
    } else {
      this.performInitialMount(renderedElement, hostParent, hostContainerInfo, transaction, context);
    }

    // Roll back to checkpoint, handle error (which may add items to the transaction), and take a new checkpoint
    transaction.rollback(checkpoint);

    if (this._instance.unstable_handleError(e)) {
      return null;
    }

    this._renderedComponent.unmountComponent(true);

    // Try again - we've informed the component about the error, so they can render an error message this time.
    if (this._instance.state === undefined) {
      // Render the component
      markup = this.performInitialMount(renderedElement, hostParent, hostContainerInfo, transaction, context);
    } else {
      // Render the component
      markup = this.performInitialMount(renderedElement, hostParent, hostContainerInfo, transaction, context);
    }

    // If not a stateless component, we need to render
    if (renderedElement !== undefined) { return
  }

Open Source Used In MSX SD-WAN Service Pack 4.0.0 20581
this._updateBatchNumber = null; if (shouldUpdate) {
    this._pendingForceUpdate = false; // Will set 
    this.props, this.state and this.context.
    this._performComponentUpdate(nextParentElement, nextProps, 
    nextState, nextContext, transaction, nextUnmaskedContext)
  } else { // If it's determined that a component 
    should not update, we still want 
    to set props and state but we shortcut the rest of the update.
    this.currentElement = nextParentElement; 
    this.context = nextUnmaskedContext; 
    inst.props = nextProps; 
    inst.state = nextState; 
    inst.context = nextContext; 
  }
}

_processPendingState: function (props, context) {
    var inst = this.instance; 
    var queue = this._pendingStateQueue; 
    var replace = 
    this._pendingReplaceState = false; 
    this._pendingStateQueue = null; 
    if (!queue) {
        return inst.state; 
    } else if (replace) { 
        return queue[0]; 
    }

    var nextState = _assign({}, replace ? queue[0] : inst.state); 
    for (var i = replace ? 1 : 0; i < queue.length; i++) {
        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
 */

_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(function () {
                return inst.componentWillUpdate(nextProps, nextState, nextContext);
            }, this._debugID, 'componentWillUpdate');
        } else {
            inst.componentWillUpdate(nextProps, nextState, nextContext);
        }
    }

    this.currentElement = nextElement; 
    this.context = unmaskedContext; 
    inst.props = nextProps; 
    inst.state = nextState; 
    inst.context = nextContext; 
    this.updateRenderedComponent(transaction, context);
}

/**
 * Call the component's `render` method and update the DOM 
 * accordingly.
 *
 * @param {ReactReconcileTransaction} transaction
 * @param {?object} unmaskedContext
 * @private
 */

_updateRenderedComponent: function (transaction, context) {
    var prevComponentInstance = 
    this.renderedComponent; 
    var prevRenderedElement = this.renderedComponent; 

    var nodeType = ReactNodeTypes.EMPTY /* shouldHaveDebugID */; 
    var child = this.instantiateReactComponent(prevRenderedElement); 
    var debugID = this.renderValidatedComponent(prevRenderedElement, nextRenderedElement); 

    ReactReconciler.receiveComponent(prevComponentInstance, 
    nextRenderedElement, transaction, context); 
    this.previousChildContext(context); 
    var oldHostNode = ReactReconciler.getHostNode(prevComponentInstance); 
    ReactReconciler.unmountComponent(prevComponentInstance, false); 

    var nodeType = ReactNodeTypes.getType(nextRenderedElement); 
    var childType = nodeType; 
    var child = this.instantiateReactComponent(nextRenderedElement, nodeType); 
    var shouldHaveDebugID = true; 
    var renderedComponent = child; 
    var nextMarkup = ReactReconciler.mountComponent(child, transaction, 
    this.parent, this.hostContainerInfo, 
    this.previousChildContext(context), debugID); 

    if (process.env.NODE_ENV !== 'production') {
        if (debugID !== 0) {
            childDebugIDs = child._debugID; 
        } else {
            ReactInstrumentation.debugTool.onSetChildren(debugID, childDebugIDs);
        }
    }

this._replaceNodeWithMarkup(oldHostNode, nextMarkup, prevComponentInstance);

  if (process.env.NODE_ENV !== 'production') {
    renderedElement = measureLifeCyclePerf(function () {
      return inst.render();
    }, this._debugID, 'render');
  } else {
    renderedElement = inst.render();
  }

  if (process.env.NODE_ENV !== 'production') {
    // We allow auto-mocks to proceed as if they're returning null if (renderedElement === undefined &&
    inst.render_isMockFunction) {
      // This is probably bad practice. Consider warning here and
      // deprecating this convenience.
      renderedElement = null;
    }
  }

  if (process.env.NODE_ENV !== 'production') {
    // We allow auto-mocks to proceed as if they're returning null.
    if (renderedElement === undefined &&
        inst.render_isMockFunction) {
      // This is probably bad practice. Consider warning here and
      // deprecating this convenience.
      renderedElement = null;
    }
  }

  if (renderedElement === null || renderedElement === false || React.isValidElement(renderedElement)) {
    invariant(false, '%s.render(): A valid React element (or null) must be returned. You may have returned
    undefined, an array or some other invalid object.', this.getName() || 'ReactCompositeComponent');
  }
ReactServerUpdateQueue = require('./ReactServerUpdateQueue');

/**
 * Executed within the scope of the `Transaction` instance. Consider these
 * being member methods, but with an implied ordering while being
 * isolated from each other.
 */

var TRANSACTION_WRAPPERS = [];

if (process.env.NODE_ENV !== 'production') {
  TRANSACTION_WRAPPERS.push({
    initialize: ReactInstrumentation.debugTool.onBeginFlush,
    close: ReactInstrumentation.debugTool.onEndFlush
  });
}

var noopCallbackQueue = {
  enqueue: function () {}
};

/**
 * Executed within the scope of the `Transaction` instance. Consider these
 * as member methods, but with an implied ordering while being
 * isolated from each other.
 */

var TRANSACTION_WRAPPERS = [];

if (process.env.NODE_ENV !== 'production') {
  TRANSACTION_WRAPPERS.push({
    initialize: ReactInstrumentation.debugTool.onBeginFlush,
    close: ReactInstrumentation.debugTool.onEndFlush
  });
}

var noopCallbackQueue = {
  enqueue: function () {}
};

/**
 * @class
 * @param {boolean} renderToStaticMarkup
 */

function ReactServerRenderingTransaction(renderToStaticMarkup) {
  this.reinitializeTransaction();

  this.renderToStaticMarkup = renderToStaticMarkup;
  this.useCreateElement = false;
  this.updateQueue = new ReactServerUpdateQueue(this);
}

var Mixin = {
  /**
   * @see Transaction
   * @abstract
   * @final
   *
   * @return {array} Empty list of operation wrap procedures.
   */
  getTransactionWrappers: function () {
    return TRANSACTION_WRAPPERS;
  },

  /**
   * @return {object} The queue to collect `onDOMReady` callbacks with.
   */
  getReactMountReady: function () {
    return noopCallbackQueue;
  },

  /**
   * @return {object} The queue to collect React async events.
   */
  getUpdateQueue: function () {
    return this.updateQueue;
  },

  /**
   * `PooledClass` looks for this, and will invoke this before allowing this
   * instance to be reused.
   */
  destructor: function () {},

  checkpoint: function () {},

  rollback: function ()
}

_assign(ReactServerRenderingTransaction.prototype, Transaction, Mixin);

PooledClass.addPoolingTo(ReactServerRenderingTransaction);

module.exports = ReactServerRenderingTransaction;


//////////////////
// WEBPACK FOOTER
// module.id = 819
// module.chunks = 0
// module.exports = ReactServerRenderingTransaction
(this.transaction.isInTransaction()) {
   ReactUpdateQueue.enqueueForceUpdate(publicInstance);
 } else {
   warnNoop(publicInstance, 'forceUpdate');
 }\n
/**
 * 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 {boolean|function} completeState Next state.

 * if (this.transaction.isInTransaction()) {

 // This transaction is in progress and will
 // be force updated.
 ReactUpdateQueue.enqueueReplaceState(publicInstance, completeState);
 }

 // This transaction is not in progress and the
 // `replaceState` transaction should proceed.
 ReactUpdateQueue.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 isn't 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.

 * ReactUpdateQueue.prototype.enqueueSetState = function
 * enqueueSetState(publicInstance, partialState) {
 *   if (this.transaction.isInTransaction()) {
 *     ReactUpdateQueue.enqueueSetState(publicInstance, partialState);
 *   } else {
 *     warnNoop(publicInstance, 'setState');
 *   }
 * }

 // Eventually, if a transaction is not in progress
 // and `forceUpdate` has been called inside it,
 // we need to run the transaction as a `replaceState`.
 module.exports =
 ReactServerUpdateQueue;

 // WEBPACK FOOTER
 // ./node_modules/react-dom/lib/ReactServerUpdateQueue.js

 // module id = 820
 // module chunks = 0
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// If B is deeper, crawl up.
while (depthB - depthA > 0) {
  instB = instB._hostParent;
  depthB--;
} // Walk in lockstep until we find a match.
var depth = depthA;
while (depth--) {
  if (instA === instB) {
    return instA;
  } else if (process.env.NODE_ENV !== 'production') {
    invariant(false, 'isAncestor: Invalid argument.');
  }
}

// If B is deeper, crawl up.
while (depthB - depthA > 0) {
  instB = instB._hostParent;
  depthB--;
}

// Walk in lockstep until we find a match.
var depth = depthA;
while (depth--) {
  if (instA === instB) {
    return instA;
  }
  instA = instA._hostParent;
  instB = instB._hostParent;
}

/**
 * Return if A is an ancestor of B.
 */
function isAncestor(instA, instB) {
  if (!('_hostNode' in instA)) {
    process.env.NODE_ENV !== 'production' ? invariant(false, 'isAncestor: Invalid argument.') : void 0;
    process.env.NODE_ENV !== 'production' ? invariant(false, 'isAncestor: Invalid argument.') : _prodInvariant('35');
  }
  if (!('_hostNode' in instB)) {
    process.env.NODE_ENV !== 'production' ? invariant(false, 'isAncestor: Invalid argument.') : _prodInvariant('35');
  }

  while (instB) {
    if (instB === instA) {
      return true;
    }
    instB = instB._hostParent;
  }
  return false;
}

/**
 * Return the parent instance of the
 * passed-in instance.
 */
function getParentInstance(inst) {
  if (!('_hostNode' in inst)) {
    process.env.NODE_ENV !== 'production' ? invariant(false, 'getParentInstance: Invalid argument.') : _prodInvariant('36');
  }

  return inst._hostParent;
}

/**
 * Simulates the traversal of a two-phase, capture/bubble event dispatch.
 */
function traverseTwoPhase(inst, fn, arg) {
  var path = [];
  while (inst) {
    path.push(inst);
    inst = inst._hostParent;
  }
  var i;
  for (i = path.length; i-- > 0;) {
    fn(path[i], 'captured', arg);
  }
  for (i = 0; i < path.length; i++) {
    fn(path[i], 'bubbled', arg);
  }
}

/**
 * Traverses the ID hierarchy and invokes the supplied `cb` on any IDs
 * that would receive a 'mouseEnter' or 'mouseLeave' event.
 * Does not invoke the callback on the nearest common ancestor because nothing
 * * \"entered\" or \"left\" that element.
 */
function traverseEnterLeave(from, to, fn, argFrom, argTo) {
  var common = from && to ? getLowestCommonAncestor(from, to) : null;
  var pathFrom = [];
  while (from && from !== common) {
    pathFrom.push(from);
    from = from._hostParent;
  }
  var pathTo = [];
  while (to && to !== common) {
    pathTo.push(to);
    to = to._hostParent;
  }
  var i;
  for (i = 0; i < pathFrom.length; i++) {
    fn(pathFrom[i], 'bubbled', argFrom);
  }
  for (i = pathTo.length; i-- > 0;) {
    fn(pathTo[i], 'captured', argTo);
  }
}

module.exports = {
  isAncestor: isAncestor,
  getLowestCommonAncestor: getLowestCommonAncestor,
  getParentInstance: getParentInstance,
  traverseTwoPhase: traverseTwoPhase,
  traverseEnterLeave: traverseEnterLeave
};

\\\\\\\\
// WEBPACK FOOTER
// module.id = 822
// module.chunks = 0
var domID = hostContainerInfo._idCounter++;
var openingValue = 'react-text: ' + domID + ':
var closingValue = 'react-text: ';
this._domID = domID;
this._hostParent = hostParent;
if (transaction.useCreateElement) {
  var ownerDocument = hostContainerInfo._ownerDocument;
  var
  openingComment = ownerDocument.createComment(openingValue);
  var closingComment = ownerDocument.createComment(closingValue);
  var lazyTree = DOMLazyTree(ownerDocument.createDocumentFragment());
  DOMLazyTree.queueChild(lazyTree, DOMLazyTree(openingComment));
  if (this._stringText) {
    DOMLazyTree.queueChild(lazyTree, DOMLazyTree(ownerDocument.createTextNode(this._stringText)));
  }
  DOMLazyTree.queueChild(lazyTree, DOMLazyTree(closingComment));
  ReactDOMComponentTree.precacheNode(this, openingComment);
  this._closingComment = closingComment;
  return lazyTree;
} else {
  var escapedText = escapeTextContentForBrowser(this._stringText);
  if (transaction.renderToStaticMarkup) {
    // Normally we'd wrap this between comment nodes for the reasons stated above, but since this is a situation where React won't take over // (static pages), we can simply return the text as it is.
    return escapedText;
  }
  return '<!--' + openingValue + '-->' + escapedText + '<!--' + closingValue + '-->';
}

/**
 * Updates this component by updating the text content.
 * @param {ReactText} nextText The next text content
 * @param {ReactReconcileTransaction} transaction The transaction
 * @internal
 * @overridable
 */
receiveComponent: function(nextText, transaction) {
  if (nextText !== this._currentElement) {
    this._currentElement = nextText;
    var nextStringText = '' + nextText;
    if (nextStringText !== this._stringText) {
      // TODO: Save this as pending props and use performUpdateIfNecessary // and/or updateComponent to do the actual update for consistency within // other component types?
      this._stringText = nextStringText;
      var commentNodes = this.getHostNode();
      DOMChildrenOperations.replaceDelimitedText(commentNodes[0], commentNodes[1], nextStringText);
    }
  }
}

unmountComponent: function () {
  this._closingComment = null;
  this._commentNodes = null;
  ReactDOMComponentTree.uncacheNode(this);
}
module.exports = ReactReconcileTransaction;
always forward.

IE text differs from modern selection in that it behaves as though block elements end with a new line. This means character offsets will differ between the two APIs. node * @param {DOMElement} node
* @returns {object}

@function getIEOffsets

@returns {object}

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 fromStart = selectedRange.duplicate();
  fromStart.moveToElementText(node);
  fromStart.setEndPoint('EndToStart', selectedRange);
  return {start: fromStart.text.length, end: fromStart.moveToElementText(node)};
}

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;

  var currentRange = selection.getRangeAt(0);

  // 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 erroring 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 */
    currentRange.startContainer.nodeType;
    currentRange.endContainer.nodeType;
    /* eslint-enable no-unused-expressions */
  } catch (e) {
    return null;
  }

  // If the node and offset values are the same, the selection is collapsed. 
  // "Selection.isCollapsed" is available natively, but IE sometimes gets it 
  // wrong. 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 isTempRangeCollapsed = isCollapsed(tempRange.startContainer, tempRange.startOffset, tempRange.endContainer, tempRange.endOffset);
  var start = isTempRangeCollapsed ? 0 : tempRange.toString().length;
  var end = start + rangeLength;

  // Detect whether the selection is backward.
  var detectionRange = document.createRange();
  detectionRange.setStart(anchorNode, anchorOffset);
  detectionRange.setEnd(focusNode, focusOffset);

  var isBackward = detectionRange.collapsed;

  var startMarker = getNodeForCharacterOffset(node, anchorOffset);
  var endMarker = getNodeForCharacterOffset(node, focusOffset);

  if (startMarker && endMarker) {
    var range = document.createRange().duplicate();
    var start = isBackward ? end : start;
    var end = isBackward ? start : end;

    range.setStart(startMarker.node, startMarker.offset);
    range.setEnd(endMarker.node, endMarker.offset);

    // Pick the selection that has the shorter length.
    var tempRange = window.getSelection().rangeCount === 0 ? currentRange : tempRange;

    var nodeLength = node[getTextContentAccessor()].length;

    if (nodeLength <tempRange.toString().length) {
      // Move the range to the new selection.
      range.moveToElementText(node);
    } else {
      // Move the selection to the new range.
      currentRange.moveEnd('character', start);
      currentRange.moveEnd('character', end - start);
      range.selectNodeContents(node);
    }

    return {start: Math.min(start, startMarker.rangeStart), end: Math.max(end, endMarker.rangeEnd)};
  }

  return null;
}

setIEOffsets(node, offsets) {
  var range = document.selection.createRange().duplicate();
  var start, end;

  if (offsets.end === undefined) {
    start = offsets.start;
    end = start;
  } else if (offsets.start > offsets.end) {
    start = offsets.end;
    end = offsets.start;
  } else {
    start = offsets.start;
    end = offsets.end;
  }

  range.moveToElementText(node);
  range.moveStart('character', start);
  range.moveEnd('character', end - start);
  range.selectNodeContents(node);

  return {start: Math.min(start, startMarker.rangeStart), end: Math.max(end, endMarker.rangeEnd)};
}

setModernOffsets(node, offsets) {
  var selection = window.getSelection();
  var start = Math.min(offsets.start, node[getTextContentAccessor()].length);
  var end = Math.max(offsets.end, node[getTextContentAccessor()].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;
  }

  selection.removeAllRanges();
  selection.extend(endMarker.node, endMarker.offset);
}

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Open Source Used In MSX SD-WAN Service Pack 4.0.0  20596
Open Source Used in MSX SD-WAN Service Pack 4.0.0

20597
```
openSourceUsedInMxSxSdWanServicePack4.0.0  20598

```
Open Source Used In MSX SD-WAN Service Pack 4.0.0  20599

'timeUpdate', 'touchCancel', 'touchEnd', 'touchMove', 'touchStart', 'transitionEnd', 'volumeChange', 'waiting', 'wheel'].forEach(function (event) {
  var capitalizedEvent = event[0].toUpperCase() + event.slice(1);
  var
    onEvent = 'on' + capitalizedEvent;
  var
    topEvent = 'top' + capitalizedEvent;
  var
    var type = {
      phasedRegistrationNames: {
        bubbled: onEvent,
        captured: onEvent + 'Capture'
      },
      dependencies:
        [topEvent]
    },
    eventTypes = {
      [topEvent]: type,
      topLevelEventsToDispatchConfig[topEvent] = type
    };
    var
      onEvent = 'on' + capitalizedEvent;
      var
      topEvent = 'top' + capitalizedEvent;
      var
        type = {
          phasedRegistrationNames: {
            bubbled: onEvent,
            captured: onEvent + 'Capture'
          },
          dependencies:
            [topEvent]
        },
        eventTypes[topEvent] = type;
        eventTypes[topEvent] = type;
    });

var
  onClickListeners = {};

function getDictionaryKey(inst) {
  // Prevents V8 performance issue:
  // https://github.com/facebook/react/pull/7232
  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)
      { return null; },
      var DispatchConfig = {topLevelType: 'dispatchConfig'};
      if (! DispatchConfig) { return null; }
      var EventConstructor;
      switch (topLevelType) {
        case 'topAbort';
        case 'topCanPlay';
        case 'topCanPlayThrough';
        case 'topDurationChange';
        case 'topEnded';
        case 'topError';
        case 'topInput';
        case 'topInvalid';
        case 'topLoad';
        case 'topLoadedData';
        case 'topLoadedMetadata';
        case 'topLoadStart';
        case 'topPause';
        case 'topPlay';
        case 'topProgress';
        case 'topRateChange';
        case 'topReset';
        case 'topSeeked';
        case 'topSeeking';
        case 'topStalled';
        case 'topSubmit';
        case 'topSuspend';
        case 'topTimeUpdate';
        case 'topVolumeChange';
        case 'topWaiting';
          // HTML Events
          // @see http://www.w3.org/TR/html5/index.html#events-0
          EventConstructor = SyntheticEvent;
          break;
        case 'topKeyPress';
          // Firefox creates a keypress event for function keys too. This removes
          // the unwanted keypress events. Enter is however both printable and
          // non-printable. One would expect Tab to be as well (but it isn't).
          if (getEventCharCode(nativeEvent) === 0) { return null; }
          /* falls through */
        case 'topKeyDown';
        case 'topKeyUp';
          EventConstructor = SyntheticKeyboardEvent;
          break;
        case 'topBlur';
        case 'topFocus';
          EventConstructor = SyntheticFocusEvent;
          break;
        case 'topClick';
          // Firefox creates a click event on right mouse clicks. This removes the
          // unwanted click events. Enter is however both printable and
          // non-printable. One would expect Tab to be as well (but it isn't).
          if (getEventCharCode(nativeEvent) === 0) { return null; }
          /* falls through */
        case 'topDoubleClick';
        case 'topMouseDown';
        case 'topMouseMove';
        case 'topMouseUp';
          // TODO: Disabled elements should not respond to mouse events
          /* falls through */
        case 'topMouseOut';
        case 'topMouseOver';
          EventConstructor = SyntheticMouseEvent;
          break;
        case 'topDrag';
        case 'topDragEnd';
        case 'topDragEnter';
        case 'topDragExit';
        case 'topDragLeave';
        case 'topDragOver';
        case 'topDragStart';
        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';
          EventConstructor = SyntheticTransitionEvent;
          break;
        case 'topScroll';
          EventConstructor = SyntheticUiEvent;
          break;
        case 'topWheel';
          EventConstructor = SyntheticWheelEvent;
          break;
        case 'topCut';
        case 'topPaste';
          EventConstructor = SyntheticClipboardEvent;
          break;
      }
      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);
      EventPropagators.accumulateTwoPhaseDispatches(event);
      return event;
    },

    didPutListener: function (inst, registrationName, listener) {
      // Mobile Safari does not fire properly bubble click events on non-
      // 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);
        }
        onClickListeners[key] = EventListener.listen(node, 'click', emptyFunction);
      }
    }
  };

function handleTopLevelDispatch(type, targetInst, nativeEvent, nativeEventTarget) {
  // Mobile Safari does not fire properly bubble click events on non-
  // 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);
    }
    onClickListeners[key] = EventListener.listen(node, 'click', emptyFunction);
  }
}
willDeleteListener: function (inst, registrationName) {
    var key = getDictionaryKey(inst);
    var onClickListeners = inst._tag.onClickListeners;
    if (registrationName === 'onClick' && !isInteractive(inst._tag)) {
        var key = getDictionaryKey(inst);
        onClickListeners[key].remove();
        delete onClickListeners[key];
    }
};

module.exports = SimpleEventPlugin;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/SimpleEventPlugin.js
// module id = 836
// module chunks = 0

/**
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 *
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var SyntheticEvent = require('./SyntheticEvent');

/**
 * @interface Event
 * @see http://www.w3.org/TR/css3-animations/#AnimationEvent-interface
 * @see https://developer.mozilla.org/en-US/docs/Web/API/AnimationEvent
 */
var AnimationEventInterface = {
  animationName: null,
  elapsedTime: null,
  pseudoElement: null
};

/**
 * @param {object} dispatchConfig Configuration used to dispatch this event.
 * @param {string} dispatchMarker Marker identifying the event target.
 * @param {object} nativeEvent Native browser event.
 * @extends {SyntheticEvent}
 */
function SyntheticAnimationEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent,
    nativeEventTarget);
};

SyntheticEvent.augmentClass(SyntheticAnimationEvent, AnimationEventInterface);

module.exports = SyntheticAnimationEvent;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/SyntheticAnimationEvent.js
// module id = 837
// module chunks = 0

/**
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 *
 */

'use strict';

var SyntheticEvent = require('./SyntheticEvent');

/**
 * @interface Event
 * @see http://www.w3.org/TR/clipboard-apis/
 */
var ClipboardEventInterface = {
  clipboardData: function (event) {
    return 'clipboardData' in event ?
      event.clipboardData : window.clipboardData;
  }
};

/**
 * @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 SyntheticClipboardEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent,
    nativeEventTarget);
};

SyntheticEvent.augmentClass(SyntheticClipboardEvent, ClipboardEventInterface);

module.exports = SyntheticClipboardEvent;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/SyntheticClipboardEvent.js
// module id = 838
// 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';

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.  // KeyPress is deprecated, but its replacement is not yet final and not
// implemented in any
// major browser. Only KeyPress has charCode. if (event.type === 'keypress') {
// return
getEventCharCode(event); } in return 0; }, keyCode: function (event) { if ('keyCode' is the result of a
// KeyDown/Up event and represents the value of
// physical keyboard key. // The actual meaning of the value
// depends on the users' keyboard layout // which cannot be detected. Assuming that it is a US keyboard
// layout // provides a surprisingly accurate mapping for US and European users. // Due to this, it is left to the
// user to implement at this time. if (event.type === 'keydown' || event.type === 'keyup') {
// return
event.keyCode; } in return 0; }, which: function (event) {
// `which` is an alias for either `keyCode` or
// `charCode` depending on the type of the event // which cannot be detected. Assuming that it is a US keyboard
// layout // provides a surprisingly accurate mapping for US and European users. // Due to this, it is left to the
// user to implement at this time. if (event.type === 'keydown' || event.type === 'keyup') {
// return
event.keyCode; } in return 0; }, keyCode: function (event) {
// `keyCode` is the result of a
KeyDown/Up event and represents the value of
// physical keyboard key. // The actual meaning of the value
// depends on the users' keyboard layout // which cannot be detected. Assuming that it is a US keyboard
// layout // provides a surprisingly accurate mapping for US and European users. // Due to this, it is left to the
// user to implement at this time. if (event.type === 'keydown' || event.type === 'keyup') {
// return
event.keyCode; } in return 0; }

/**
 * @param {object} dispatchConfig Configuration used to dispach 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;


//////////////////
// WEBPACK FOOTER
// ./node_modules/~//.n~ode_modules/react-dom/lib/SyntheticKeyboardEvent.js
// module id = 840
// module chunks =

FOOTER

FOOTER
* LICENSE file in the root directory of this source tree.

```javascript
'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 ' + 'not access anything 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;
  }
  if (componentOrElement.nodeType === 1) {
    return componentOrElement;
  }

  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;
  }
}
```

module.exports = findDOMNode;

```
or a function, not \" + typeof superClass); } subClass.prototype = Object.create(superClass &&
superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true, configurable: true } }); if
(superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ =
superClass; }\n\nvar defaultMapStateToProps = function defaultMapStateToProps(state) {\n return {};\n}; // eslintdisable-line no-unused-vars\nvar defaultMapDispatchToProps = function defaultMapDispatchToProps(dispatch) {\n
return { dispatch: dispatch };\n};\nvar defaultMergeProps = function defaultMergeProps(stateProps, dispatchProps,
parentProps) {\n return _extends({}, parentProps, stateProps, dispatchProps);\n};\n\nfunction
getDisplayName(WrappedComponent) {\n return WrappedComponent.displayName || WrappedComponent.name ||
'Component';\n}\n\nvar errorObject = { value: null };\nfunction tryCatch(fn, ctx) {\n try {\n return
fn.apply(ctx);\n } catch (e) {\n errorObject.value = e;\n return errorObject;\n }\n}\n\n// Helps track hot
reloading.\nvar nextVersion = 0;\n\nfunction connect(mapStateToProps, mapDispatchToProps, mergeProps) {\n
Boolean(mapStateToProps);\n var mapState = mapStateToProps || defaultMapStateToProps;\n\n var mapDispatch
= void 0;\n if (typeof mapDispatchToProps === 'function') {\n mapDispatch = mapDispatchToProps;\n } else if
(!mapDispatchToProps) {\n mapDispatch = defaultMapDispatchToProps;\n } else {\n mapDispatch = (0,
_wrapActionCreators2[\"default\"])(mapDispatchToProps);\n }\n\n var finalMergeProps = mergeProps ||
defaultMergeProps;\n var _options$pure = options.pure,\n
pure = _options$pure === undefined ? true :
_options$pure,\n
_options$withRef = options.withRef,\n
withRef = _options$withRef === undefined ? false :
_options$withRef;\n\n var checkMergedEquals = pure && finalMergeProps !== defaultMergeProps;\n\n // Helps
track hot reloading.\n var version = nextVersion++;\n\n return function wrapWithConnect(WrappedComponent)
{\n var connectDisplayName = 'Connect(' + getDisplayName(WrappedComponent) + ')';\n\n function
checkStateShape(props, methodName) {\n
if (!(0, _isPlainObject2[\"default\"])(props)) {\n
(0,
_warning2[\"default\"])(methodName + '() in ' + connectDisplayName + ' must return a plain object. ' + ('Instead
received ' + props + '.'));\n
}\n }\n\n function computeMergedProps(stateProps, dispatchProps, parentProps)
{\n
var mergedProps = finalMergeProps(stateProps, dispatchProps, parentProps);\n
if
(process.env.NODE_ENV !== 'production') {\n
checkStateShape(mergedProps, 'mergeProps');\n
}\n
return mergedProps;\n }\n\n var Connect = function (_Component) {\n
_inherits(Connect, _Component);\n\n
Connect.prototype.shouldComponentUpdate = function shouldComponentUpdate() {\n
return !pure ||
this.haveOwnPropsChanged || this.hasStoreStateChanged;\n
};\n\n
function Connect(props, context) {\n
_classCallCheck(this, Connect);\n\n
var _this = _possibleConstructorReturn(this, _Component.call(this, props,
context));\n\n
_this.version = version;\n
_this.store = props.store || context.store;\n\n
(0,
_invariant2[\"default\"])(_this.store, 'Could not find \"store\" in either the context or ' + ('props of \"' +
connectDisplayName + '\". ') + 'Either wrap the root component in a <Provider>, ' + ('or explicitly pass \"store\" as a
prop to \"' + connectDisplayName + '\".'));\n\n
var storeState = _this.store.getState();\n
_this.state = {
storeState: storeState };\n
_this.clearCache();\n
return _this;\n
}\n\n
Connect.prototype.computeStateProps = function computeStateProps(store, props) {\n
if
(!this.finalMapStateToProps) {\n
return this.configureFinalMapState(store, props);\n
}\n\n
var state =
store.getState();\n
var stateProps = this.doStatePropsDependOnOwnProps ? this.finalMapStateToProps(state,
props) : this.finalMapStateToProps(state);\n\n
if (process.env.NODE_ENV !== 'production') {\n
checkStateShape(stateProps, 'mapStateToProps');\n
}\n
return stateProps;\n
};\n\n
Connect.prototype.configureFinalMapState = function configureFinalMapState(store, props) {\n
var
mappedState = mapState(store.getState(), props);\n
var isFactory = typeof mappedState === 'function';\n\n
this.finalMapStateToProps = isFactory ? mappedState : mapState;\n
this.doStatePropsDependOnOwnProps =
this.finalMapStateToProps.length !== 1;\n\n
if (isFactory) {\n
return this.computeStateProps(store,
props);\n
}\n\n
if (process.env.NODE_ENV !== 'production') {\n
checkStateShape(mappedState,
'mapStateToProps');\n
}\n
return mappedState;\n
};\n\n
Connect.prototype.computeDispatchProps =
function computeDispatchProps(store, props) {\n
if (!this.finalMapDispatchToProps) {\n
return
this.configureFinalMapDispatch(store, props);\n
}\n\n
var dispatch = store.dispatch;\n\n
var

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dispatchProps = this.doDispatchPropsDependOnOwnProps ? this.finalMapDispatchToProps(dispatch, props) :
this.finalMapDispatchToProps(dispatch);

if (process.env.NODE_ENV !== 'production') {
  checkStateShape(dispatchProps, 'mapDispatchToProps');
}

return dispatchProps;

if (process.env.NODE_ENV !== 'production') {
  checkStateShape(mapDispatchToProps(dispatch, props), 'mapDispatchToProps');
}

return mapDispatchToProps;

Connect.prototype.configureFinalMapDispatch = function configureFinalMapDispatch(store, props) {
  var mappedDispatch = mapDispatch(store.dispatch, props);
  var isFactory = typeof mappedDispatch === 'function';

  this.doDispatchPropsDependOnOwnProps = isFactory ? mappedDispatch.length !== 1 : true;

  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));
  }
}

Connect.prototype.tryUnsubscribe = function tryUnsubscribe() {
  if (this.unsubscribe) {
    this.unsubscribe();
    this.unsubscribe = null;
  }
}

Connect.prototype.handleChange = function handleChange() {
  if (!this.unsubscribe) {
    return;
  }

  var storeState = this.store.getState();
  var prevStoreState = this.state.storeState;
  if (pure && !this.doStatePropsDependOnOwnProps) {
    var haveStatePropsChanged = tryCatch(this.updateStatePropsIfNeeded, this);}
  if (!haveStatePropsChanged) {
    return;
  }

  if (haveStatePropsChanged !== errorObject) {
    this.statePropsPrecalculationError = errorObject.value;
  } else {
    this.setState({ storeState: storeState });
  }

  if (pure && prevStoreState !== storeState) {
    var varState = this.store.getState();

    if (this.doStatePropsDependOnOwnProps) {
      var haveStatePropsChanged = tryCatch(this.updateStatePropsIfNeeded, this);
    }
  }

  if (haveStatePropsChanged) {
    return;
  }

  if (this.statePropsPrecalculationError !== null) {
    this.statePropsPrecalculationError = null;
  }

  var haveOwnPropsChanged = true;

  if (this.statePropsBeenPrecalculated) {
    this.statePropsPrecalculationError = null;
  }

  var renderedElement = null;

  if (this.finalMapDispatchToProps === null) {
    this.finalMapDispatchToProps = null;
  }

  if (this.doStatePropsDependOnOwnProps) {
    var haveStatePropsChanged = tryCatch(this.updateStatePropsIfNeeded, this);
  }

  if (haveStatePropsChanged) {
    return;
  }

  if (this.statePropsPrecalculationError !== null) {
    this.statePropsPrecalculationError = null;
  }

  this.renderedElement = null;

  return true;
}

Connect.prototype.getWrappedInstance = function getWrappedInstance() {
  if (withRef) {
    return this.refs.wrappedInstance;
  }

  return this.getWrappedInstance();
}

Connect.prototype.isMounted = function isMounted() {
  return this.isMounted;
}

Connect.prototype.componentDidMount = function componentDidMount() {
  this.clearCache();
}

Connect.prototype.componentWillReceiveProps = function componentWillReceiveProps(nextProps) {
  if (pure || (!this.stateProps && !this.setState)) {
    return;
  }

  this.setStateProps = nextProps;
  return true;
}

Connect.prototype.componentWillUnmount = function componentWillUnmount() {
  this.clearCache();
}

Connect.prototype.clearCache = function clearCache() {
  this.dispatchProps = null;
  this.stateProps = null;
  this.mergedProps = null;

  this.haveOwnPropsChanged = true;
  this.hasStoreChanged = true;

  this.statePropsBeenPrecalculated = false;

  if (this.statePropsPrecalculationError !== null) {
    this.renderedElement = null;
  }

  if (this.finalMapDispatchToProps === null) {
    this.finalMapDispatchToProps = null;
  }

  if (this.doStatePropsDependOnOwnProps) {
    var haveStatePropsChanged = tryCatch(this.updateStatePropsIfNeeded, this);
  }

  if (haveStatePropsChanged) {
    return;
  }

  if (this.statePropsPrecalculationError !== null) {
    this.statePropsPrecalculationError = null;
  }

  this.renderedElement = null;

  return true;
}

Connect.prototype.setWrappedInstance = function setWrappedInstance() {
  if (withRef) {
    this.getWrappedInstance();
  }

  return this.getWrappedInstance();
}

Connect.prototype.unmountComponentAtNode = function unmountComponentAtNode() {
  if (this.doStatePropsDependOnOwnProps) {
    var haveStatePropsChanged = tryCatch(this.updateStatePropsIfNeeded, this);
  }

  if (haveStatePropsChanged) {
    return;
  }

  if (this.statePropsPrecalculationError !== null) {
    this.statePropsPrecalculationError = null;
  }

  this.renderedElement = null;

  return true;
}

Connect.prototype.componentWillUpdate = function componentWillUpdate(nextProps, nextState) {
  if (pure || (!this.stateProps && !this.setState)) {
    return;
  }

  this.setStateProps = nextState;
  this.stateProps = null;

  this.setWrappedInstance = function setWrappedInstance() {
    if (withRef) {
      this.getWrappedInstance();
    }

    return this.getWrappedInstance();
}

Connect.prototype.unmountComponentAtNode = function unmountComponentAtNode() {
  if (this.doStatePropsDependOnOwnProps) {
    var haveStatePropsChanged = tryCatch(this.updateStatePropsIfNeeded, this);
  }

  if (haveStatePropsChanged) {
    return;
  }

  if (this.statePropsPrecalculationError !== null) {
    this.statePropsPrecalculationError = null;
  }

  this.renderedElement = null;
this.renderedElement;

this.haveStatePropsBeenPrecalculated = false;
this.statePropsPrecalculationError = null;

if (statePropsPrecalculationError) {
  throw statePropsPrecalculationError;
}

var shouldUpdateStateProps = true;
var shouldUpdateDispatchProps = true;
if (pure && & renderedElement) {
  shouldUpdateStateProps = hasStoreStateChanged || haveOwnPropsChanged &
  this.doStatePropsDependOnOwnProps;
  shouldUpdateDispatchProps = haveOwnPropsChanged &
  this.doDispatchPropsDependOnOwnProps;

  var haveStatePropsChanged = false;
  var haveDispatchPropsChanged = false;
  if (haveStatePropsBeenPrecalculated) {
    haveStatePropsChanged = true;
  } else if (shouldUpdateStateProps) {
    haveStatePropsChanged = this.updateStatePropsIfNeeded();
  }

  var haveDispatchPropsChanged = this.updateDispatchPropsIfNeeded();
  if (haveDispatchPropsChanged) {
    haveDispatchPropsChanged = this.updateDispatchPropsIfNeeded();
  }

  haveStatePropsChanged = false;
  if (haveDispatchPropsChanged && 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;
}

Connect.displayName = connectDisplayName;
Connect.WrappedComponent = WrappedComponent;
Connect.contextTypes = {
  store: _storeShape2["default"]
};

Connect.propTypes = {
  store: _storeShape2["default"]
};

if (process.env.NODE_ENV !== 'production') {
  Connect.prototype.componentWillUpdate = function

    if (this.version === version) {
      return;
    }

    // We are hot reloading!
    this.version = version;
    this.trySubscribe();
    this.clearCache();
    return (0, _hoistNonReactStatics2["default"])(Connect, WrappedComponent);
    return WEBPACK FOOTER

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```javascript
module.exports = baseAssign;

function baseAssign(object, source) {
  return object && copyObject(source, keys(source), object);
}

module.exports = baseAssignIn;

function baseAssignIn(object, source) {
  return object && copyObject(source, keysIn(source), object);
}

function baseKeysIn(object) {
  if (!isObject(object)) {
    return nativeKeysIn(object);
  }
  var isProto = isPrototype(object),
      result = [];

  for (var key in object) {
    if (!(key == 'constructor' && (isProto || !hasOwnProperty.call(object, key)))) {
      result.push(key);
    }
  }
  return result;
}

function nativeKeysIn(object) {
  var result = [];
  if (object != null) {
    for (var key in Object(object)) {
      result.push(key);
    }
  }
  return result;
}

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;
}

function copyArray(source, array) {
  var index = -1,
      length = source.length;

  array || (array = Array(length));

  while (++index < length) {
    array[index] = source[index];
  }
  return array;
}

function copySymbols(source, object) {
  return
```

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value references. */

```javascript
var spreadableSymbol = Symbol ? Symbol.isConcatSpreadable : undefined;

/**
 * Checks if `value` is a flattenable 'arguments' object or array.
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is flattenable, else `false`.
 */
function isFlattenable(value) {
  return isArray(value) || isArguments(value) ||
      !!(spreadableSymbol && value && value[spreadableSymbol]);
}

module.exports = isFlattenable;
```

```javascript
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;
```

```javascript
var constant = require('./constant'),
    defineProperty = require('./_defineProperty'),
    identity = require('./identity');

/**
 * 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
 *
 * function Foo() {
 *   this.a = 1;
 * }
 *
 * function Bar() {
 *   this.c = 3;
 * }
 *
 * Foo.prototype.b = 2;
 * Bar.prototype.d = 4;
 *
 * _.assign({ 'a': 0 }, new Foo, new Bar);
 * // => { 'a': 1, 'c': 3 }
 */
function constant(value) {
  return function() {
    return value;
  };
}

module.exports = constant;
```

```javascript
var HOT_COUNT = 800,
    HOT_SPAN = 16;

/* Built-in function references for those with the same name as other 'lodash' methods. */
var assignValue = require('./_assignValue'),
    copyObject = require('./_copyObject'),
    createAssigner = require('./_createAssigner'),
    isArrayLike = require('./isArrayLike'),
    isPrototype = require('./_isPrototype'),
    keys = require('./keys');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/**
 * Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * Assigns own enumerable string keyed properties of source objects to the `object`.
 * Subsequent sources overwrite property assignments of previous sources.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Object
 * @param {Object} object The destination object.
 * @param {...Object} [sources] The source objects.
 * @returns {Object} Returns `object`.
 * @see _.assignIn
 * @example
 *
 * function Foo() {
 *   this.a = 1;
 * }
 *
 * function Bar() {
 *   this.c = 3;
 * }
 *
 * Foo.prototype.b = 2;
 * Bar.prototype.d = 4;
 *
 * _.assign({ 'a': 0 }, new Foo, new Bar);
 * // => { 'a': 1, 'c': 3 }
 * var assign = createAssigner(function(object,
```
source) {
  if (isPrototype(source)) return;
} for (var key in source) {
  if (hasOwnProperty.call(source, key)) {
    assignValue(object, key, source[key]);
  }
};

module.exports = assign;


//////////////////
// WEBPACK FOOTER
// module id = 894
// module chunks = 0
"unsafe" and "unwise" chars.\n unsafeProtocol = { ["javascript": true, "javascript": true] } \n // protocols that never have a hostname.\n hostlessProtocol = { ["javascript": true, "javascript": true] } \n // protocols that always contain a // bit.\n slashedProtocol = { ["http": true, "https": true, "ftp": true, "gopher": true, "file": true, "http": true, "https": true, "ftp": true, "gopher": true, "file": true] } \n // querystring = require('querystring');\n function urlParse(url, parseQueryString, slashesDenoteHost) \n { if (url && util.isObject(url) && url instanceof Url) return url; \n var u = new Url; \n u.parse(url, parseQueryString, slashesDenoteHost); \n return u; \n } \n url.prototype.parse = function(url, parseQueryString, \n slashesDenoteHost) { if (!util.isString(url)) { throw new TypeError("Parameter 'url' must be a string, not " + typeof url); \n } \n // Copy chrome, IE, opera backslash-handling behavior.\n // Back slashes before the query \n string get converted to forward slashes.\n // See: https://code.google.com/p/chromium/issues/detail?id=25916 \n var queryIndex = url.indexOf('?') || 0; \n var splitter = url \n (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' : '#'; \n var uSplit = url.split(splitter); \n var slashRegex = /\\/g; \n var uSplit[0] = uSplit[0].replace(slashRegex, '/'); \n var url = uSplit.join(splitter); \n var rest = url; \n return url; \n } \n // trim before proceeding.\n // This is to support parse stuff like "\n http://foo.com \n var rest = rest.trim(); \n if (!slashesDenoteHost && url.split('#').length === 1) { \n return rest; \n } \n try { fast path \n var simplePath = simplePathPattern.exec(rest); \n if (simplePath) { \n this.path = rest; \n this.href = rest; \n this.pathname = simplePath[1]; \n if (simplePath[2]) { \n this.search = simplePath[2]; \n } \n if (parseQueryString) { \n this.query = querystring.parse(this.search.substr(1)); \n } else { \n this.query = this.search.substr(1); \n } } \n else if (parseQueryString) { \n this.query = querystring.parse(this.search.substr(1)); \n } \n this.href = rest; \n this.pathname = simplePath[1]; \n var proto = protocolPattern.exec(rest); \n if (proto) { \n this.protocol = rest.substr(proto[0].length); \n var hec = rest.indexOf(nonHostChars[0]); \n if (hec !== -1 && (hostEnd === -1 || hec < hostEnd)) { \n hostEnd = hec; \n } \n } \n while (true) { \n this.query = querystring.parse(this.search.substr(1)); \n } \n var rest = rest; \n this.query = querystring.parse(this.search.substr(1)); \n } \n this.protocol = rest.substr(0, 2) === '//'; \n if (slashes && !(proto && hostlessProtocol[proto])) { \n rest = rest.substr(proto.length); \n } \n \n // figure out if it's got a hostname.\n // user@server is always* interpreted as a \n // host name, and url \n \n // resolution will treat //foo/bar as host=foo,path=bar because that's \n \n // how the browser resolves relative URLs.\n \n if (slashesDenoteHost || proto || rest.match(/^\/\/[^@\/
]+@
[^@\/
]+/)) { \n var slashesDenoteHost = true; \n } \n \n var rest = rest.trim(); \n \n if (!slashesDenoteHost && url.split('#').length === 1) { \n // try fast path \n this.path = simplePathPattern.exec(rest); \n if (simplePath) { \n this.path = rest; \n this.href = rest; \n this.pathname = simplePath[1]; \n if (simplePath[2]) { \n this.search = simplePath[2]; \n } \n if (parseQueryString) { \n this.query = querystring.parse(this.search.substr(1)); \n } else { \n this.query = this.search.substr(1); \n } } \n else if (parseQueryString) { \n this.query = querystring.parse(this.search.substr(1)); \n } \n this.href = rest; \n this.pathname = simplePath[1]; \n var proto = protocolPattern.exec(rest); \n if (proto) { \n this.protocol = rest.substr(0, 2) === '//'; \n if (slashes && !(proto && hostlessProtocol[proto])) { \n rest = rest.substr(2); \n } \n } \n \n // find the first instance of any host-ending char \n \n var hostEnd = -1; \n for (var i = 0; i < hostEndingChars.length; i++) { \n var hec = rest.indexOf(hostEndingChars[i]); \n if (hec !== -1 && hostEnd !== -1) { \n } \n // comes before the last @.\n // URLS are obnoxious.\n // \n if (i === 0 &&slashesDenoteHost) { \n rest = rest.slice(0, hostEnd); \n } \n \n // if there's a hostname,\n // the first instance of l, ?, , or # ends the host.\n // \n // If there is an @ in the hostname, then non-host chars are allowed.\n // to the left of the last @ sign, unless \n // some host-ending character comes *after* the @-sign.\n // URLs are obnoxious.\n // ex:\n // http://a@b@c/=user:a@b host:etc\n \n // v0.12 TODO(isaacs): \n //\n // This is not quite how Chrome does things.\n // Review our test case against browsers more comprehensively.\n \n // if the first instance of any host-ending char is \n \n var hostEnd = -1; \n for (var i = 0; i < hostEndingChars.length; i++) { \n var hec = rest.indexOf(hostEndingChars[i]); \n if (hec !== -1 && hostEnd !== -1) { \n } \n // comes before \n // the @ sign.\n // URLs are obnoxious.\n // ex:\n // http://a@b@c/=user:a@b host:etc\n \n // v0.12 TODO(isaacs):
true).resolveObject(relative);\n\nurl.prototype.resolveObject = function(relative) {\n  if (util.isString(relative)) {\n    var rel = new Url();\n    rel.parse(relative, false, true);\n    relative = rel;\n  }\n  var result = new Url();\n  var tkeys = Object.keys(this);\n  for (var tk = 0; tk < tkeys.length; tk++) {\n    var varKey = tkeys[tk];\n    result[varKey] = this[varKey];\n  }\n  // hash is always overridden, no matter what.\n  // even href="/" will remove it.\n  result.hash = relative.hash;\n  // if the relative url is empty, then there's nothing left to do here.\n  if (relative.href === "") {\n    result.href = result.format();\n    return result;\n  }\n  if (relative.slashes && relative.protocol) {\n    result.protocol = relative.protocol;\n    if (!result.pathname) {\n      return result;\n    }\n    // hrefs like //foo/bar always cut to the protocol.\n    if (relative.protocol === "") {\n      return result;\n    }\n  }\n  var psychotic = result.protocol && result.hostname && result.pathname;\n  var relPath = relative.pathname || ";\n  var result = new Url();\n  relPath = relPath.split("/");\n  while (relPath.length && (relative.protocol || relative.host)) {\n    var relative = relPath.shift();\n    if (relative.protocol) {\n      result.protocol = relative.protocol;\n      if (!result.pathname) {\n        result.pathname = relative.pathname;\n      }\n    } else {\n      result.pathname = relative.pathname;\n      result.search = relative.search;\n      result.query = relative.query;\n      result.host = relative.host || ";\n      result.auth = relative.auth || ";\n      result.hostname = relative.hostname || ";\n      result.port = relative.port || ";\n      // to support http.request\n      if (result.pathname || search) {\n        var p = result.pathname || ";\n        var s = result.search || ";\n        var r = result.path = p + s;\n      }\n      result.slashes = result.slashes || relative.slashes;\n      result.href = result.format();\n      return result;\n    }\n    // it's relative, grab the result.\n    var relative = result;\n  }\n  result.href = result.format();\n  return result;
}

Url.prototype.resolveObject = function(relative) {
  if (util.isString(relative)) {\n    var rel = new Url();\n    rel.parse(relative, false, true);\n    relative = rel;\n  }\n  var result = new Url();\n  var tkeys = Object.keys(this);\n  for (var tk = 0; tk < tkeys.length; tk++) {\n    var varKey = tkeys[tk];\n    result[varKey] = this[varKey];\n  }\n  // hash is always overridden, no matter what.\n  // even href="/" will remove it.\n  result.hash = relative.hash;\n  // if the relative url is empty, then there's nothing left to do here.\n  if (relative.href === "") {\n    result.href = result.format();\n    return result;\n  }\n  if (relative.slashes && relative.protocol) {\n    result.protocol = relative.protocol;\n    if (!result.pathname) {\n      return result;\n    }\n  }\n  var psychotic = result.protocol && result.hostname && result.pathname;\n  var relPath = relative.pathname || ";\n  var result = new Url();\n  relPath = relPath.split("/");\n  while (relPath.length && (relative.protocol || relative.host)) {\n    var relative = relPath.shift();\n    if (relative.protocol) {\n      result.protocol = relative.protocol;\n      if (!result.pathname) {\n        result.pathname = relative.pathname;\n      }\n    } else {\n      result.pathname = relative.pathname;\n      result.search = relative.search;\n      result.query = relative.query;\n      result.host = relative.host || ";\n      result.auth = relative.auth || ";\n      result.hostname = relative.hostname || ";\n      result.port = relative.port || ";\n      // to support http.request\n      if (result.pathname || search) {\n        var p = result.pathname || ";\n        var s = result.search || ";\n        var r = result.path = p + s;\n      }\n      result.slashes = result.slashes || relative.slashes;\n      result.href = result.format();\n      return result;\n    }\n    // it's relative, grab the result.\n    var relative = result;\n  }\n  result.href = result.format();\n  return result;
}

var psychotic = result.protocol && result.hostname && result.pathname;
Open Source Used In MSX SD-WAN Service Pack 4.0.0

result.host.split('@') : false

if (authInHost) {
  result.auth = authInHost.shift();
}
result.host = result.hostname = authInHost.shift();

result.query = relative.query;

// to support http.request
if (!util.isNull(result.pathname)) {
  result.pathname = null;
  // to support http.request
  if (result.search) {
    result.pathname = (result.pathname ? result.pathname + '/' : '');
    result.pathname += result.search;
  } else {
    result.pathname = null;
  }
}

// URL methods

// to support http.request
if (result.pathname) {
  result.pathname = result.pathname + result.search;
}

// URL methods

Url.prototype.parseHost = function() {
  var host = this.host;
  var port = portPattern.exec(host);
  if (port) {
    port = port[0];
    if (port !== ':') {
      this.port = port.substr(1);
    }
    host = host.substr(0, host.length - port.length);
  }
  this.hostname = host;
};

Url.prototype.parsePath = function() {
  var path = this.path;
  var slashes = this.slashes;
  path = path.replace(/([^\s/.])\1\//g, '$1$1');
  if (path) {
    path = path.replace(/^[^\s/]+/, '');
  }
  this.pathname = path;
  this.search = null;
  this.query = null;
  this.path = null;
};

Url.prototype.stringify = function() {
  return this.format();
};

Url.prototype.format = function() {
  var url = '';
  if (result.pathname) {
    url += result.pathname + '/';
  }
  url += (result.search ? result.search : '');
  return url;
};

// global exports

/* global exports */

var punycode,
    maxInt = 2147483647,
    base = 36,
    tMin = 1,
    tMax = 26,
    skew = 38,
    damp = 700,
    initialBias = 72,
    initialN = 128,
    delimiter = '-',
    regexPunycode = /^xn--/,
    regexNonASCII = /[^\x20-\x7E]/,

    regexSeparators = /[\x2E\u3002\uFF0E\uFF61]/g,
    // RFC 3490 separators

    regexPunycode = /^xn--/,
    regexNonASCII = /[^\x20-\x7E]/,

    /** Bootstring parameters */
    base = 36,
    tMin = 1,
    tMax = 26,
    skew = 38,
    damp = 700,
    initialBias = 72,
    initialN = 128,
    delimiter = '-',
    regexPunycode = /^xn--/,
    regexNonASCII = /[^\x20-\x7E]/,

    /** Error messages */
    errors = {
        'overflow': 'Overflow: input needs wider integers to process',
        'not-basic': 'Illegal input >= ASCII chars

        /** Convenience shortcuts */
        \nt = @private
        \nt = @param [String] type The error type.
        \nt = @returns {Error}

        tries a "RangeError" with the applicable error message.

        /** Generic error utility function. */
        function error(type) {
            throw new Error(type);
        }

        // temporary variable */
        key;
RangeError(errors[type]);

/**
 * A generic `Array#map` utility function.
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} callback The function that gets called for every array item. @returns {Array} A new array of values returned by the callback function. @function

/**
 * A simple `Array#map`-like wrapper to work with domain name strings or email addresses. Creates a string based on an array of numeric code points. While JavaScript uses UCS-2 internally, this function will convert a pair of surrogate halves (each of which is UCS-2 exposes as separate characters) into a single code point.
 * @param {String} string The Unicode input string (UCS-2).
 * @returns {Array} The new array of code points.
 * @function

/**
 * 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 is UCS-2 exposes as separate characters) into a single code point.
 * @param {String} string The Unicode input string (UCS-2).
 * @returns {Array} The new array of code points.
 * @function

/**
 * Creates a string based on an array of numeric code points.
 * @param {Array} codePoints The array of numeric code points.
 * @returns {String} The new Unicode string (UCS-2).
 * @function

/**
 * Converts a digit/integer into a basic code point.
 * @param {Number} digit The numeric value of a basic code point.
 * @returns {Number} The basic code point whose value (when used for representing integers) is `digit`, which needs to be in the range `0` to `base - 1`, or `base` if `digit` the code point does not represent a value.
 * @function

/**
 * Converts a digit/integer to a basic code point.
 * @param {Number} digit The numeric value of a basic code point.
 * @returns {Number} The basic code point whose value (when used for representing integers) is `digit`, which needs to be in the range `0` to `base - 1`. If `flag` is non-zero, the uppercase form is used; else, the lowercase form is used. The behavior is undefined if `flag` is non-zero and `digit` has no uppercase form.
 * @function

...
document.documentElement.addEventListener('onmousedown', fastCheck);

var observer = new ObserverInfo(callback, false);
observer.object = obj;
observer.unobserve = function () {
  var changes = this.generate(); // generate changes
  core_1.applyPatch(mirror.value, changes);
  this.callback(changes);
  this.patches = null;
};

observer.patches = patches;

var mirror = beforeDict.get(obj);
var keys = helpers_1._objectKeys(obj);
var newKeys = helpers_1._objectKeys(mirror);
var deleted = false;
var changed = false;
for (var i = 0; i < keys.length; i++) {
  var key = keys[i];
  var val = obj[key];
  var newKey = newKeys[i];
  var newVal = obj[newKey];
  if (typeof val == 'object' && val !== null) {
    if (typeof newVal == 'object' && newVal !== null) {
      _generate(val, newVal, changes, path + '/' + helpers_1.escapePathComponent(key));
    } else {
      if (val !== newVal) {
        changed = true;
        changes.push({ op: 'replace', path: path + '/' + helpers_1.escapePathComponent(key), value: helpers_1._deepClone(newVal) });
      }
    }
  } else if (Array.isArray(val) === Array.isArray(newVal)) {
    changes.push({ op: 'remove', path: path + '/' + helpers_1.escapePathComponent(key) });
    deleted = true; // property has been deleted
  } else {
    changes.push({ op: 'add', path: path + '/' + helpers_1.escapePathComponent(key), value: helpers_1._deepClone(obj[newKey]) });
    changed = true;
  }
}

if (!deleted && newKeys.length > 0) {
  var newValues = new Keys(mirror.value);
  var same = true;
  for (var i = 0; i < newKeys.length; i++) {
    var key = newKeys[i];
    var val = obj[key];
    var newVal = newValues[key];
    if (val !== newVal) {
      same = false;
      break;
    }
  }
  if (same) {
    changes.push({ op: 'deepEqual', path: path + '/' + helpers_1.escapePathComponent(key), value: helpers_1._deepClone(obj[key]) });
  }
}

Create an array of patches from the differences in two objects

var newValues = new Keys(mirror.value);
var same = true;
for (var i = 0; i < newKeys.length; i++) {
  var key = newKeys[i];
  var val = obj[key];
  var newVal = newValues[key];
  if (val !== newVal) {
    same = false;
    break;
  }
}
if (same) {
  changes.push({ op: 'deepEqual', path: path + '/' + helpers_1.escapePathComponent(key), value: helpers_1._deepClone(obj[key]) });
}
properties (as verified // with Object.prototype.hasOwnProperty.call), the same set of keys
// (although not necessarily the same order), equivalent values for every
// corresponding key, and an identical 'prototype' property. Note: this
// accounts for both named and indexed properties on Arrays.
} else {
  return objEquiv(actual, expected, opts);
}

function isUndefinedOrNull(value) {
  return value === null || value
    === undefined;
}

function isBuffer (x) {
  if (!x || typeof x !== 'object' || typeof x.length !== 'number') return
    false;
  if (typeof x.copy !== 'function' || typeof x.slice !== 'function') {
    return false;
  }
  if (x.length > 0 &&
    typeof x[0] !== 'number') {
    return false;
  }
  return true;
}

function objEquiv(a, b, opts) {
  var i, key;
  if
  (isUndefinedOrNull(a) || isUndefinedOrNull(b))
    return false;
  if (a.prototype !== b.prototype) return false;
  var ka = objectKeys(a),
      kb = objectKeys(b);
  if (ka.length !=
    kb.length)
    return false;
  for (i = ka.length - 1; i >= 0; i--)
    if (ka[i] != kb[i])
      return false;
  for (i = ka.length - 1; i
    >= 0; i--)
    key = ka[i];
  if (!deepEqual(a[key], b[key], opts)) return false;
  return typeof a === typeof
  b;
}

module.exports = objEquiv;
module.exports = require('_/collection')(WEAK_MAP, wrapper, methods, weak, true, true);

module.exports = require('./_collection')(WEAK_MAP, wrapper, methods, weak, true, true);

// IE11 WeakMap frozen keys fix
(fails(function () { return new $WeakMap().set(Object.freeze || Object(tmp), 7).get(tmp) !== 7; }))

// store frozen objects on internal weakmap shim
if (isObject(a) && !isExtensible(a))
  var if (this._f) this._f = new InternalMap();

var result = this._f[key](a, b); return key === 'set' ? this : result;

// store all the rest on native weakmap
return method.call(this, a, b);

module.id = 918
module chunks = 0

ArraySpeciesCreate(prototype, length)

var isObject = require('./_is-object');
var isArray = require('./_is-array');
var SPECIES = require('./_wks')('species');

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

ArraySpeciesCreate(prototype, length)
if (curValue instanceof Array)
  curValue[curValue.length] = value;
else if (typeof curValue == 'undefined')
  curValue = value;

// encode only the values that are not already encoded, for
// performance reasons

if (curValue == null) return;

if (typeof value == 'undefined')
  return curValue;

if (typeof curValue == 'string')
  return encode(curValue, value);

if (curValue instanceof Array)
  return encode(curValue, value);
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 


```javascript
// Test function
function test() {
  var obj = {
    a: 1,
    b: 2,
    c: 3
  }
  var pairs = [
    ['a', 1],
    ['b', 2],
    ['c', 3]
  ];
  var options = {
    decode: decodeURIComponent,
    encode: encodeURIComponent,
    pairSplitRegExp: /; */
  };
  var result = parse('a=1;b=2;c=3', options);
  console.log(result); // { 'a': 1, 'b': 2, 'c': 3 }
}
```

```javascript
// Module exports
exports.parse = parse;
exports.serialize = serialize;
```

```javascript
```
findSurrogateByteIndex(string, index);

      if (byteIndex < 0) {
        return NaN;
      }

      var code =

      return match[0];
      }
    };

    obj.charCodeAt = function(string, index) {
      var byteIndex =

      graphemeClusterRegex.exec(characters);

      if (match === null) {
        return characters[0];
      } else {

      }

      var characters = string.slice(byteIndex, byteIndex + 8);
      var match =

      this.findByteIndex(string, index);

      if ((byteIndex < 0) || (byteIndex >= string.length)) {
        return '';
= /[\uDC00-\uDFFF]/g

var graphemeClusterRegex = createScanner([], "\n"");

var regionalIndicatorPairs = /[\uDC80-\uDCFF]/g;

UtfString.visual = /[\uDC80-\uDCFF]/g;

WEBPACK FOOTER

WEBPACK FOOTER

/*jshint devel:true, asi:true */

/*global define, module */

(function (root, factory) {
    if (typeof define === "function" && define.amd) {
        define([], factory())
    } else if (typeof module === "object" && module.exports) {
        module.exports = factory()
    } else {
        (function install()
        {
            // To make sure Zenscroll can be referenced from the header, before `body` is available
            if (document && document.body) {
                root.zenscroll = factory()
            } else {
                // retry 9ms later
                setTimeout(install, 9)
            }
        })()
    }
}(this, function () {
    "use strict"

    // Detect if the browser already supports native smooth scrolling (e.g., Firefox 36+ and Chrome 49+) and it is enabled:
    var isNativeSmoothScrollEnabledOn = function (elem) {
        return elem && "getComputedStyle" in window &&
            window.getComputedStyle(elem)[$towbebehavior] === "$smooth"
    }

    // Exit if it’s not a browser environment:
    if (typeof window === "undefined" || !("document" in window)) {
        return
    }

    var makeScroller = function (container, defaultDuration, edgeOffset) {

        // Use defaults if not provided
        defaultDuration = defaultDuration || 999 //ms
        if (!edgeOffset && edgeOffset !== 0) {
            // When scrolling, this amount of distance is kept from the edges of the container:
            edgeOffset = 9 //px
        }

        // Handling the life-cycle of the scroller
        var timeoutId
        var setTimeoutId = function (newValue) {
            timeoutId = newValue
        }

        /**
         * Stop the current smooth scroll operation immediately
         */
        var stopScroll = function () {
            clearTimeout(timeoutId)
            setTimeoutId(0)
        }

        var getTopWithEdgeOffset = function (elem) {
            return Math.max(0, container.getTopOf(elem) - edgeOffset)
        }

        /**
         * Scrolls to a specific vertical position in the document.
         * @param {targetY} The vertical position within the document.
         * @param {duration} Optionally the duration of the scroll operation.
         *        If not provided the default duration is used.
         */
        var scrollToY = function (targetY, duration, onDone) {
            stopScroll()
            if (duration === 0 || (duration && duration < 0) || isNativeSmoothScrollEnabledOn(container.body)) {
                container.toY(targetY)
                if (onDone) {
                    onDone()
                }
            } else {
                var startY = container.getY()
                var distance = Math.max(0, targetY) - startY
                var startTime = new Date().getTime()
                duration = duration || Math.min(Math.abs(distance), defaultDuration);
                (function loopScroll() {
                    timeoutId = setTimeout(function () {
                        var p
**Scroll to the top of a specific element.**

The element to scroll to: `@param {elem}`

Optional callback function to be invoked once the scroll is finished: `@param {onDone}`

Options: `duration` and `onDone` (default values: `null`)

Implementation:

```javascript
function scrollToElem(elem, duration, onDone) {
  scrollToY(getTopWithEdgeOffset(elem), duration, onDone)
}
```

**Scrolls to the center of an element.**

The element: `@param {elem}`

Optional callback function to be invoked once the scroll operation is finished: `@param {onDone}`

Options: `duration` and `onDone` (default values: `null`)

Implementation:

```javascript
function scrollToCenterOf(elem, duration, offset, onDone) {
  scrollToY(Math.max(0, container.getTopOf(elem) - container.getHeight()/2 + (offset || elem.getBoundingClientRect().height/2)), duration, onDone)
}
```

**Scrolls an element into view if necessary.**

The element: `@param {elem}`

Optional callback function to be invoked once the scroll is finished: `@param {onDone}`

Options: `duration` and `onDone` (default values: `null`)

Implementation:

```javascript
function scrollIntoView(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) > containerHeight) {
    scrollToElem(elem, duration, onDone)
  } else if (onDone) {
    onDone()
  }
}
```

**Scrolls to the top of a specific element.**

The element to scroll to: `@param {elem}`

Optional callback function to be invoked once the scroll is finished: `@param {onDone}`

Options: `duration` and `onDone` (default values: `null`)

Implementation:

```javascript
function scrollToTop(elem, duration, onDone) {
  scrollToY(0, duration, onDone)
}
```

**Scrolls an element into view if necessary.**

The element: `@param {elem}`

Optional callback function to be invoked once the scroll is finished: `@param {onDone}`

Options: `duration` and `onDone` (default values: `null`)

Implementation:

```javascript
function scrollIntoView(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) > containerHeight) {
    scrollToElem(elem, duration, onDone)
  } else if (onDone) {
    onDone()
  }
}
```

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The element: `@param {elem}`

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Options: `duration` and `onDone` (default values: `null`)

Implementation:

```javascript
function scrollToCenterOf(elem, duration, offset, onDone) {
  scrollToY(Math.max(0, container.getTopOf(elem) - container.getHeight()/2 + (offset || elem.getBoundingClientRect().height/2)), duration, onDone)
}
```

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  var containerHeight = container.getHeight()
  var y = container.getY()
  var containerBottom = y + containerHeight
  if (getTopWithEdgeOffset(elem) < y || (elemHeight + edgeOffset) > containerHeight) {
    scrollToElem(elem, duration, onDone)
  } else if (onDone) {
    onDone()
  }
}
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```javascript
function scrollToCenterOf(elem, duration, offset, onDone) {
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Implementation:

```javascript
function scrollIntoView(elem, duration, onDone) {
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  var elemBottom = container.getTopOf(elem) + elemHeight
  var containerHeight = container.getHeight()
  var y = container.getY()
  var containerBottom = y + containerHeight
  if (getTopWithEdgeOffset(elem) < y || (elemHeight + edgeOffset) > containerHeight) {
    scrollToElem(elem, duration, onDone)
  } else if (onDone) {
    onDone()
  }
}
```

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The element: `@param {elem}`

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Options: `duration` and `onDone` (default values: `null`)

Implementation:

```javascript
function scrollToCenterOf(elem, duration, offset, onDone) {
  scrollToY(Math.max(0, container.getTopOf(elem) - container.getHeight()/2 + (offset || elem.getBoundingClientRect().height/2)), duration, onDone)
}
```

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}
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  var elemBottom = container.getTopOf(elem) + elemHeight
  var containerHeight = container.getHeight()
  var y = container.getY()
  var containerBottom = y + containerHeight
  if (getTopWithEdgeOffset(elem) < y || (elemHeight + edgeOffset) > containerHeight) {
    scrollToElem(elem, duration, onDone)
  } else if (onDone) {
    onDone()
  }
}
```

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The element: `@param {elem}`

Optional callback function to be invoked once the scroll operation is finished: `@param {onDone}`

Options: `duration` and `onDone` (default values: `null`)

Implementation:

```javascript
function scrollToCenterOf(elem, duration, offset, onDone) {
  scrollToY(Math.max(0, container.getTopOf(elem) - container.getHeight()/2 + (offset || elem.getBoundingClientRect().height/2)), duration, onDone)
}
```
Open Source Used In MSX SD-WAN Service Pack 4.0.0

```
// Automatic link-smoothing on anchors
// Exclude IE8- or when native is enabled or
// Zenscroll auto- is disabled
function (elem) { return elem.offsetTop }
```

```
// Add edge offset on first load if necessary

// Adjustment is only needed if there is an edge offset
```

```
// Let the browser handle the click if it wasn't with the primary button, or with some
// modifier keys:
```

```
// Save the current scrolling position so it can be used for scroll
// restoration
```

```
// Set it to manual on the first load if necessary
```

```
// This may not work on IE (or older computer?) as it requires more timeout,
around 100 ms
```

```
// Handling clicks on anchors
```

```
// Let the browser handle the click if the target ID is not found.
```

```
// Avoid the Chrome Security exception on file protocol, e.g., file://index.html
```

```
// module id = 935
```

```
const { opId } = helpers
```

```
export default class OperationContainer extends PureComponent {
    constructor(props, context) {
        super(props, context)
        this.setState({
            tryItOutEnabled: false,
            executeInProgress: false
        })
    }
```

```
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,
    response: 
        displayRequestDuration: PropTypes.bool,
        request: PropTypes.instanceOf(Iterable),
        security: PropTypes.instanceOf(Iterable),
        isAuthorized: PropTypes.bool.isRequired,
        specPath: 
            ImPropTypes.list.isRequired,
            getComponent: PropTypes.func.isRequired,
            authActions: PropsTypes.object,
            oas3Actions: PropsTypes.object,
            oas3Selectors: PropsTypes.object,
            authSelectors: PropsTypes.object,
            specActions: PropsTypes.object.isRequired,
            specSelectors: PropsTypes.object.isRequired,
            layoutActions: PropsTypes.object.isRequired,
            fn: 
                PropTypes.object.isRequired,
                getConfigs: PropsTypes.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 operationId = op.getIn(['operation', '__originalOperationId']) || op.getIn(['operation', 'operationId'])
            opId(op.get('operation'), props.path, props.method) || op.get('id')
        const isShowKey = ['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,
            allowTryItOut,
            security,
            isAuthorized:
            props.authSelectors.isAuthorized(security),
            isShowKey,
            operationId,
            jumpToKey: `paths.${props.path}.${props.method}`,
            response:
                props.specSelectors.responseFor(props.path, props.method),
                request:
                    props.specSelectors.requestFor(props.path, props.method)
            }

    componentDidMount() {
        const {
            isShowSummary } = this.props
        const resolvedSubtree = this.getResolvedSubtree()

        if(isShowSummary && resolvedSubtree
            === undefined) {
            this.requestResolvedSubtree()
        }

    componentWillReceiveProps(nextProps) {
        const { response, isShowSummary } = nextProps
        const resolvedSubtree = this.getResolvedSubtree()

        if(response
            !== this.props.response) {
            this.setState({ executeInProgress: false })
        }

        if(isShowSummary &&
            resolvedSubtree === undefined) {
            this.requestResolvedSubtree()
        }

    onExecute = () => {
        this.setState({ executeInProgress: true })
    }

    getResolvedSubtree = () => {
        const {
            specSelectors,
            path,
            method,
            specPath
        } = this.props

        if(specPath) {
            return
        }

        return
    }

    requestResolvedSubtree = () => {
        const {
            specSelectors,
            path,
            method,
            specPath
        } = this.props

        if(specPath) {
            return
        }

        return
    }

    render() {
        let {
            op:
            unresolvedOp,
            tag,
            path,
            method,
            security,
            isAuthorized,
            operationId,
            showSummary,
            isShowSummary,
            jumpToKey,
            allowTryItOut,
            response,
            request,
            displayOperationId,
            displayRequestDuration,
            isDeepLinkingEnabled,
            specPath,
            specSelectors,
            specActions,
            getComponent,
            getConfigs,
            layoutSelectors,
            layoutActions,
            authActions,
            authSelectors,
            oas3Actions,
            oas3Selectors,
            fn
        } = this.props
        const Operation =
getComponent(\"operation\")\n
const resolvedSubtree = this.getResolvedSubtree() || Map()\n
const operationProps = fromJS({\n  op: resolvedSubtree,\n  tag,\n  path,\n  summary:
unresolvedOp.getIn([\"operation\",\"summary\"]) || \"\",\n  deprecated: resolvedSubtree.get(\"deprecated\" ) || unresolvedOp.getIn([\"operation\",\"deprecated\"]) || false,\n  method,\n  security,\n  isAuthorized,\n  operationId,\n  originalOperationId: resolvedSubtree.getIn([\"operation\",\"\"originalOperationId\"] ),\n  showSummary,\n  isShown,\n  jumpToKey,\n  allowTryItOut,\n  request,\n  displayOperationId,\n  displayRequestDuration,\n  isDeepLinkingEnabled,\n  executeInProgress: this.state.executeInProgress,\n  tryItOutEnabled: this.state.tryItOutEnabled\n})\n
return {
  <Operation\n    operation={operationProps}\n    response={response}\n    request={request}\n
    toggleShown={this.toggleShown}\n    onTryoutClick={this.onTryoutClick}\n    onCancelClick={this.onCancelClick}\n    onExecute={this.onExecute}\n    specPath={specPath}\n
    specActions={ specActions }\n    specSelectors={ specSelectors }\n    oas3Actions={oas3Actions}\n    oas3Selectors={oas3Selectors}\n    layoutActions={layoutActions}\n    layoutSelectors={ layoutSelectors }\n
    authActions={ authActions }\n    authSelectors={ authSelectors }\n    getComponent={ getComponent }\n    get configs={ fn: fn }\n  }\n}
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.

```
static propTypes = {
  errSelectors: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
  authSelectors: PropTypes.object.isRequired,
  specSelectors: PropTypes.object.isRequired,
  authActions: PropTypes.object.isRequired,
  definitions: ImPropTypes.iterable.isRequired
}
```

```
import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

export default class Auths extends React.Component {
  static propTypes = {
    schema: ImPropTypes.orderedMap.isRequired,
    name: PropTypes.string.isRequired,
    onAuthChange: PropTypes.func.isRequired,
    authorized: ImPropTypes.orderedMap.isRequired
  }

  constructor(props, context) {
    super(props, context)
    let { name, schema } = this.props
    let value = this.getValue()

    this.state = {
      name: name,
      schema: schema,
      value: value
    }
  }

  getValue () {
    let { name, authorized } = this.props
    return authorized.getIn([name, "value"])
  }

  onChange =(e) => {
    let { onChange } = this.props
    let value = e.target.value
    let newState = Object.assign({}, this.state, { value: value })

    this.setState(newState)
    onChange(newState)
  }

  render() {
    let { schema, getComponent, errSelectors, name } = this.props
    const Input = getComponent("Input")
    const Row = getComponent("Row")
    const Col = getComponent("Col")
    return (
      <div className="errors" style={{ backgroundColor: "#ffeeee", color: "red", margin: "1em" }}>
        <b style={{ textTransform: "capitalize", marginRight: "1em"}} >{ errSelectors.get(name).get("source") } { errSelectors.get(name).get("level") }:{ errSelectors.get(name).get("message") } </b>
      </div>
    )
  }
}
```

```
import React from "react"
import PropTypes from "prop-types"

export default class ApiKeyAuth extends React.Component {
  static propTypes = {
    authorized: PropTypes.object,
    getComponent: PropTypes.func.isRequired,
    errSelectors: PropTypes.object.isRequired,
    schema: PropTypes.object.isRequired,
    name: PropTypes.string.isRequired,
    onChange: PropTypes.func
  }

  constructor(props, context) {
    super(props, context)
    let { name, schema } = this.props
    let value = this.getValue()

    this.state = {
      name: name,
      schema: schema,
      value: value
    }
  }

  getValue () {
    let { name, authorized } = this.props
    return authorized.getIn([name, "value"])
  }

  onChange =(e) => {
    let { onChange } = this.props
    let value = e.target.value
    let newState = Object.assign({}, this.state, { value: value })

    this.setState(newState)
    onChange(newState)
  }

  render() {
    let { schema, getComponent, errSelectors, name } = this.props
    const Input = getComponent("Input")
    const Row = getComponent("Row")
    const Col = getComponent("Col")
    return (
      <div className="errors" style={{ backgroundColor: "#ffeeee", color: "red", margin: "1em" }}>
        <b style={{ textTransform: "capitalize", marginRight: "1em"}} >{ errSelectors.get(name).get("source") } { errSelectors.get(name).get("level") }:{ errSelectors.get(name).get("message") } </b>
      </div>
    )
  }
}``
Open Source Used In MSX SD-WAN Service Pack 4.0.0  20647

```javascript
const AuthError = getComponent("authError")
const Markdown = getComponent("Markdown")
const JumpToPath = getComponent("JumpToPath", true)
const let value = this.getValue()
let errors = errSelectors.allErrors().filter(err => err.get("authId") === name) return () <div><h4>const
let path = "<h4><code>{ name || schema.get("name") }</code>
</h4><code>&nbsp;&nbsp;&lt;i>&nbsp;&lt;/i&gt;&lt;/code&gt;&lt;code>{ apiKey }
</code>&nbsp;&lt;/code&gt;&lt;/h4&gt;
</div>
</Row>
return () <h4><code>{ name || schema.get("name") }</code><br/>
</h4><Row><label>Value: &lt;label&gt;&lt;/label&gt;
</Row>
</Row>
</div>

// WEBPACK FOOTER //

```
Open Source Used In MSX SD-WAN Service Pack 4.0.0 20648
Objects\nmodule.exports = require('\_collection')(MAP, function (get) { return function get(this, arguments[0] : undefined) { return get(this, arguments[0]) ; }; });
\n\n\n// 23.1.3.4 Map.prototype.set(key, value) get: function (get) { return set(this, arguments[0] , arguments[1]) ; };
\n\n\n\n// 23.1.3.4 Map.prototype.set(key, value) get: function (get) { return set(this, arguments[0] , arguments[1]) ; };
let { name, schema, authorized, authSelectors } = this.props
let auth = authorized && auth.get(name)
let appConfig = authSelectors.getConfigs
let clientSecret = auth && auth.get("clientSecret")
let clientId = appConfig.clientId
let passwordType = auth && auth.get("passwordType")

this.state = {
appConfig, appConfigName, name: name,
schema, scopes: [], clientId, clientId, clientSecret, name: username,
password: 

let close = (e) => {
  e.preventDefault()
  let { authActions } = this.props
  authActions.showDefinitions(false)
}

let 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 })
}

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 description = schema.get("description")

  return (<
    {name: name} <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> Authorization URL: <code>{ schema.get("authorizationUrl") }</code> </p> }
    { (flow === PASSWORD || flow === ACCESS_CODE || flow === APPLICATION) && <p> Token URL: <code>{ schema.get("tokenUrl") }</code> </p> }
    <p className="flow"> Flow: <code>{ schema.get("flow") } </code> </p>

    { flow !== PASSWORD ? null
      : <Row>
        <Row>
          <label htmlFor="oauth_username"> username: </label>
          {isAuthorized ? <code>{this.state.username}</code>
            : <Col tablet={10} desktop={10}> <input id="oauth_username" type="text" data-name="username" onChange={this.onInputChange} /> </Col> }
        </Row>
        { flow !== PASSWORD ? null
          : <Row>
            <label htmlFor="password_type">Client credentials location: </label>
            {isAuthorized ? <code>******</code>
              : <Col tablet={10} desktop={10}> <input id="oauth_password" type="password" data-name="password" onChange={this.onInputChange} /> </Col> }
          </Row>
        }
      </Row> }
    </div>
  )
}
additionalQueryStringParams[key].map(encodeURIComponent).join("="))
    }
  }

  const authorizationUrl = schema.get("authorizationUrl")
  const sanitizedAuthorizationUrl = sanitizeUrl(authorizationUrl)
  let url = [sanitizedAuthorizationUrl, query.join("&")].join(authorizationUrl.indexOf("?") === -1 ? "?" : "&")
  // pass action authorizeOauth2 and authentication data through window/ to authorize with oauth2
  let 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)
}


// WEBPACK FOOTER //
// ./src/core/oauth2-authorize.js

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,
  }

// WEBPACK FOOTER //
// ./src/core/components/clear.jsx
Open Source Used In MSX SD-WAN Service Pack 4.0.0
getConfigs,

fn

let taggedOps = specSelectors.taggedOperations()

const OperationContainer = getComponent("OperationContainer", true)

const OperationTag = getComponent("OperationTag")

let { maxDisplayedTags } = getConfigs()

const layoutActions = getComponent("layoutActions")

if (filter) {
  taggedOps = fn.opsFilter(taggedOps, filter)
}

if (maxDisplayedTags && isNaN(maxDisplayedTags) && maxDisplayedTags >= 0) {
  taggedOps = taggedOps.slice(0, maxDisplayedTags)
}

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])

            // FIXME:
            // someday) this logic should probably be in a selector
            // but doing so would require further opening up
            // to the plugin system, to allow for dynamic
            // overriding of low-level selectors that other selectors
            // rely on. --KS, 12/17

            const validMethods = specSelectors.isOAS3() ?
              OAS3_OPERATION_METHODS :
              SWAGGER2_OPERATION_METHODS

            if(validMethods.indexOf(method) === -1) {
              return null
            }

            return <OperationContainer
              key={`${path}-${method}`}
              specPath={specPath}
              op={op}
              path={path}
              method={method}
              tag={tag}
              />
          }).toArray()
        }
      )
    })
  }

  <h3> No operations defined in spec! </h3>
  </div>
)
&& operation.size) || operation === null ? null : 
                <img height="32px" width="32px"
                src={require("core/../img/rolling-load.svg")}
                className="opblock-loading-animation" />
              }
              {
                deprecated && <h4 className="opblock-title_normal"> Warning: Deprecated </h4>
              }
              { 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
              }
              { !operation || !operation.size ? null :
                <Parameters
                  parameters={parameters}
                  specPath={specPath.push("parameters")}
                  operation={operation}
                  onChangeKey={onChangeKey}
                  onTryoutClick = { onTryoutClick }
                  onCancelClick = { onCancelClick }
                  tryItOutEnabled = { tryItOutEnabled }
                  allowTryItOut={allowTryItOut}
                  fn={fn}
                  getComponent={ getComponent }
                  specActions={ specActions }
                  specSelectors={ specSelectors }
                  pathMethod={ [path, method] }
                  getConfigs={ getConfigs }
                  oas3Actions={ oas3Actions }
                  oas3Selectors={ oas3Selectors }
                />
              }
              { tryItOutEnabled ? null : 
                <Execute
                  operation={ operation }
                  specActions={ specActions }
                  specSelectors={ specSelectors }
                  path={ path }
                  method={ method }
                  onExecute={ onExecute } />
              }
              { !tryItOutEnabled ? null : 
                <Clear
                  specActions={ specActions }
                  path={ path }
                  method={ method } />
              }
            </div>
        </Collapse>
      )
    }
}

// WEBPACK FOOTER //
//
import React, { PureComponent } from 'react';
import PropTypes from 'prop-types';
import { Iterable, List } from 'immutable';
import ImPropTypes from 'react-immutable-proptypes';
import toString from 'lodash/toString';

export default class OperationSummary extends PureComponent {

  static propTypes = {
    specPath: ImPropTypes.list.isRequired,
    operationProps: PropTypes.instanceOf(Iterable).isRequired,
    toggleShown: PropTypes.func.isRequired,
    getComponent: PropTypes.func.isRequired,
    getComponents: PropTypes.func.isRequired,
    authActions: PropTypes.object,
    authSelectors: PropTypes.object,
    static propTypes: PropTypes.instanceOf(Iterable).isRequired,
    operationProps: PropTypes.instanceOf(Iterable).isRequired,
    getComponent: PropTypes.func.isRequired,
  }

  static defaultProps = {
    operationProps: null,
    specPath: List(),
    summary: '',
    isAuthorized: false,
    security: null,
    operationId: '',
    originalOperationId: '',
    displayOperationId: '',
  }

  render() {

    let {
      toggleShown,
      getComponent,
      authActions,
      authSelectors,
      operationProps,
      specPath,
    } = this.props

    let {
      security,
      summary,
      method,
      op,
      showSummary,
      operationId,
      originalOperationId,
      displayOperationId,
    } = operationProps.toJS()

    let {
      summary: resolvedSummary,
    } = op

    let {
      security: resolvedSecurity,
    } = security

    const AuthorizeOperationBtn = getComponent("authorizeOperationBtn")
    const OperationSummaryMethod = getComponent("OperationSummaryMethod")
    const OperationSummaryPath = getComponent("OperationSummaryPath")
    const JumpToPath = getComponent("JumpToPath")

    return (

      <div className={`opblock-summary opblock-summary-${method}`} onClick={toggleShown}>
        <OperationSummaryMethod method={method} />
        <OperationSummaryPath getComponent={getComponent} operationProps={operationProps} specPath={specPath} />

        {!showSummary ? null :
          <div className="opblock-summary-description">
            {toString(resolvedSummary || summary)}
          </div>
        }

        {displayOperationId && originalOperationId || operationId ? <span className="opblock-summary-operation-id">{originalOperationId || operationId}</span> : null}

        {!security || !security.count() ? null :
          <AuthorizeOperationBtn
            isAuthorized={isAuthorized}
            onClick={() => {
              const applicableDefinitions = authSelectors.definitionsForRequirements(security)
              authActions.showDefinitions(applicableDefinitions)
            }}
          />
        }
        <JumpToPath path={specPath} />
      </div>
    )
  }
}

export default class OperationSummaryPath extends PureComponent {

  static propTypes = {
    specPath: ImPropTypes.list.isRequired,
    operationProps: PropTypes.instanceOf(Iterable).isRequired,
    getComponent: PropTypes.func.isRequired,
  }

  onCopyCapture = (e) => {
    // strips injected zero-width spaces (`\u200b`) from copied content
    e.clipboardData.setData("text/plain", this.props.operationProps.get("path"))
    e.preventDefault()
  }

  render() {

    let {
      getComponent,
      operationProps,
    } = this.props

    let {
      deprecated,
      isShown,
      path,
      tag,
      operationId,
      isDeepLinkingEnabled,
    } = operationProps.toJS()

    const DeepLink = getComponent("DeepLink")

    return(
      <span className={ deprecated ? "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>
    )
  }
}

export default class OperationExt extends PureComponent {

  render() {

    let OperationExtRow = getComponent("OperationExtRow")
    return (

      <div className="opblock-summary-row">
        <OperationExtRow extensions={this.props.extensions} getComponent={getComponent} />
      </div>
    )
  }
}
PropTypes.bool.isRequired,
  path: PropTypes.string.isRequired,
  method: PropTypes.string.isRequired,
getComponent: PropTypes.func.isRequired,
getConfigs: PropTypes.func.isRequired,
specSelectors: PropTypes.object.isRequired,
specActions: PropTypes.object.isRequired,
oas3Selectors: PropTypes.object.isRequired,
oas3Actions: PropTypes.object.isRequired,

specPath: ImPropTypes.list.isRequired,
fn: PropTypes.object.isRequired
}

static defaultProps = {
  tryItOutResponse: null,
  produces: fromJS(["application/json"]),
  displayRequestDuration: false
}

// These performance-enhancing checks were disabled as part of Multiple Examples
// because they were causing data-consistency issues
// shouldComponentUpdate(nextProps) {
//   try render = this.props.tryItOutResponse
//   if (nextProps.tryItOutResponse !== this.props.tryItOutResponse) {
//     nextProps.tryItOutResponse = this.props.showItOutResponse
//   }

this.props.produces.value = nextProps.produces.value
//}
this.props.produces.value = nextProps.produces.value
//
// this.props.displayRequestDuration = nextProps.displayRequestDuration
//
// this.props.produces = nextProps.produces
//
// this.props.method = nextProps.method
// return render
//

onChangeProducesWrapper = ( val ) => this.props.specActions.changeProducesValue([this.props.path,
  this.props.method], val)

onResponseContentTypeChange = ({ controlsAcceptHeader, value }) => {
  if(controlsAcceptHeader) {
    oas3Actions.setResponseContentType({
      value,
      path,
      method
    })
  }
}

render() {
  let {
    responses,
    tryItOutResponse,
    getComponent,
    getConfigs,
    specSelectors,
    fn,
    producesValue,
    displayRequestDuration,
    specPath,
    path,
    method,
    oas3Selectors,
    oas3Actions,
    oas3Actions,
    } = this.props
  let defaultCode = defaultStatusCode( responses )

  const ContentType = getComponent( "contentType" )
  const LiveResponse = getComponent( "liveResponse" )
  const Response = getComponent( "response" )

  let produces = this.props.produces && this.props.produces.size ?
    this.props.produces : Responses.defaultProps.produces

  const isSpecOAS3 = specSelectors.isOAS3()

  const acceptControllingResponse = isSpecOAS3 ?
    getAcceptControllingResponse(responses) : null

  return (
    <div className="responses-wrapper">
      <div className="opblock-section-header">
        <h4>Responses</h4>
        </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 }
                  } />

              <table className="responses-table">
                <thead>
                  <tr className="responses-header">
                    <td className="col col_header response-col_status">Code</td>
                    <td className="col col_header response-col_description">Description</td>
                    { isSpecOAS3 ? <td className="col 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}
                          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}
                          fn={fn}
                          path={path}
                        )
                      })
                    }
                  }
                </tbody>
              </table>
            </div>
          }
        </div>
      </div>
    </div>
  )

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WEBPACK FOOTER //all.js/src/core/components/responses.js",  "import React from 'react';
import PropTypes from 'prop-types';
import ImPropTypes from 'react-immutable-proptypes';
import cx from 'classnames';
import { fromJS, Seq, Iterable, List, Map } from 'immutable';
import { getSampleSchema, fromJSOrdered, stringify } from 'core/utils';

const getExampleComponent = ( sampleResponse, HighlightCode ) => {
  if ( sampleResponse !== undefined && sampleResponse !== null ) {
    return <div>
      <HighlightCode className="example" value={ sampleResponse } />
    </div>
  }
  return null
}

export default class Response extends React.Component {
  constructor(props, context) {
    super(props, context)

    this.state = {
      responseContentType: '',
    }
  }

  static propTypes = {
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    code: PropTypes.string.isRequired,
    response: PropTypes.instanceOf(Iterable),
    className: PropTypes.string,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    specPath: ImPropTypes.list.isRequired,
    fn: PropTypes.object.isRequired,
    contentType: PropTypes.string,
    activeExamplesKey: PropTypes.string,
    controlsAcceptHeader: PropTypes.bool,
    onContentTypeChange: PropTypes.func
  }

  static defaultProps = {
    response: fromJS({}),
    onContentTypeChange: () => {}
  }

  _onContentTypeChange = (value) => {
    const { onContentTypeChange, controlsAcceptHeader } = this.props
    this.setState({ responseContentType: value })
    onContentTypeChange({
      value: value,
      controlsAcceptHeader
    })
  }

  getTargetExamplesKey = () => {
    const { response, contentType, activeExamplesKey } = this.props

    const activeContentType = this.state.responseContentType || contentType
    const activeMediaType = response.getIn(['content', activeContentType], Map({}))
    const examplesForMediaType = activeMediaType.get("examples", null)

    const firstExamplesKey = examplesForMediaType.keySeq().first()
    return activeExamplesKey || firstExamplesKey
  }

  render() {
    let {
      path,
      method,
      code,
      response,
      className,
      specPath,
      fn,
      getComponent,
      getConfigs,
      specSelectors,
      contentType,
      controlsAcceptHeader,
      oas3Actions,
    } = this.props

    let { inferSchema } = fn
    let isOAS3 = specSelectors.isOAS3()

    let headers = response.get("headers")
    let links = response.get("links")
    const Headers = getComponent("headers")
    const HighlightCode = getComponent("highlightCode")
    const ModelExample = getComponent("modelExample")
    const Markdown = getComponent("Markdown")
    const OperationLink = getComponent("operationLink")
    const ContentType = getComponent("contentType")
    const ExamplesSelect = getComponent("ExamplesSelect")
    const Example = getComponent("Example")

    var sampleResponse
    var schema, specPathWithPossibleSchema

    const activeContentType = this.state.responseContentType || contentType
    const activeMediaType = response.getIn(['content', activeContentType], Map({}))
    const examplesForMediaType = activeMediaType.get("examples", null)

    // Goal: find a schema value for `schema`
    if(isOAS3) {
      const oas3SchemaForContentType = activeMediaType.get("schema")
      schema = oas3SchemaForContentType
    } else {
      schema = response.getIn(['content', activeContentType], Map({}))
      // Goal: find a schema value for `schema`'s child
      if(isOAS3) {
        schema = oas3SchemaForContentType
      } else {
        // find an example value for `sampleResponse`'s child
        if(examplesForMediaType) {
          sampleResponse = stringify(targetExamplesKey)
        } else if(activeMediaType.get("example") !== undefined) {
          sampleResponse = stringify(activeMediaType.get("example"))
        } else {
          // use the example key's value
          sampleResponse = stringify(activeMediaType.get("example"))
        }
      }
    }

    // Goal: find a schema value for `schema`'
    if(isOAS3) {
      const oas3SchemaForContentType = activeMediaType.get("schema")
      schema = oas3SchemaForContentType
    } else {
      // find an example value for `sampleResponse`'s child
      if(examplesForMediaType) {
        sampleResponse = stringify(targetExamplesKey)
      } else if(activeMediaType.get("example") !== undefined) {
        sampleResponse = stringify(activeMediaType.get("example"))
      } else {
        // use the example key's value
        sampleResponse = stringify(activeMediaType.get("example"))
      }
    }

    // Goal: find a schema value for `schema`
    if(isOAS3) {
      const oas3SchemaForContentType = activeMediaType.get("schema")
      schema = oas3SchemaForContentType
    } else {
      // find an example value for `sampleResponse`'s child
      if(examplesForMediaType) {
        sampleResponse = stringify(targetExamplesKey)
      } else if(activeMediaType.get("example") !== undefined) {
        sampleResponse = stringify(activeMediaType.get("example"))
      } else {
        // use the example key's value
        sampleResponse = stringify(activeMediaType.get("example"))
      }
    }
  }
}
// use an example value generated based on the schema
sampleResponse = getSampleSchema(oas3SchemaForContentType.toJS(), this.state.responseContentType, { includeReadOnly: true })
else { sampleResponse = schema }

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()
            : Set()}
            onChange={this._onContentTypeChange}
          />
        
        {controlsAcceptHeader ? (
          <small className="response-control-media-type__accept-message">
            Controls <code>Accept</code> header.
          </small>
        ) : null}
      </div>
      <ExamplesSelect examples={examplesForMediaType}
        currentExampleKey={this.getTargetExamplesKey()}
        onSelect={key =>
          oas3Actions.setActiveExamplesMember({
            name: key,
            pathMethod: [path, method,
              contextType: "responses",
              contextName: code
            ]
          })
        }
        showLabels={false}
      />
    </div>
    { example || schema ? (
      <ModelExample specPath={specPathWithPossibleSchema}
        getComponent={getComponent}
        getConfigs={getConfigs}
        specSelectors={specSelectors}
        schema={fromJSOrdered(schema)}
        example={example} />
    ) : null }
    { isOAS3 && examplesForMediaType ? (
      <Example example={examplesForMediaType.get(this.getTargetExamplesKey(), Map({}))}
        getComponent={getComponent}
        omitValue={true}
      />
    ) : null }
    { headers ? (<Headers headers={headers} getComponent={getComponent} />) : null }
    { links ? (<OperationLink key={key} link={link} getComponent={getComponent} />) : null }
  </td>
</tr>
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let {
  specActions: { changeConsumesValue },
  onChangeKey
} = this.props

changeConsumesValue(onChangeKey, val) => |

if (tab === "parameters") {
  return this.setState({
    parametersVisible: true,
    callbackVisible: false
  })
} else if (tab === "callbacks") {
  return this.setState({
    callbackVisible: true,
    parametersVisible: false
  })
}

render() => |

let {
  onTryoutClick,
  onCancelClick,
  parameters,
  allowTryItOut,
  tryItOutEnabled,
  specPath,
  fn,
  getComponent,
  getConfigs,
  specSelectors,
  specActions,
  pathMethod,
  oas3Actions,
  oas3Selectors,
  operation
} = this.props

const ParameterRow = getComponent("parameterRow")
const TryItOutButton = getComponent("TryItOutButton")
const ContentType = getComponent("contentType")
const Callbacks = getComponent("Callbacks", true)
const RequestBody = getComponent("RequestBody")

const isOAS3 = specSelectors.isOAS3()
const requestBody = operation.get("requestBody")

const requestBody = operation.get("requestBody")

<ParameterRow
  fn={ fn }
  specPath={specPath.push(i.toString())}
  getComponent={ getComponent }
  getConfigs={ getConfigs }
  rawParam={ parameter }
  param={
    specSelectors.parameterWithMetaIdentity(pathMethod, parameter )
  }
  specSelectors={ specSelectors }
  specActions={ specActions }
  oas3Actio
(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)
}

_onExampleSelect = (key, /* { isSyntheticChange } = {} */) => {
  this.props.oas3Actions.setActiveExamplesMember({
    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 { specActions, param, pathMethod, rawParam, oas3Selectors } = this.props;
  let paramWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) || Map();
  if (!paramWithMeta) return;
  if (paramWithMeta.get('value') !== undefined) {
    return onChangeWrapper(paramWithMeta.get('value'))
  }

  if (paramWithMeta.get('x-example')) {
    return onChangeWrapper(paramWithMeta.get('x-example'))
  }

  if (paramWithMeta.get('default')) {
    return onChangeWrapper(paramWithMeta.get('default'))
  }

  let newvalue = paramWithMeta.defaultsIn(
    newValue
  )

  if (newvalue !== undefined) {
    return onChangeWrapper(newvalue)
  }

  let { isFormData } = oas3Selectors

  if (isFormData) {
    return onChangeWrapper(paramWithMeta.defaultsIn(
      newValue
    ))
  }

  return onChangeWrapper(paramWithMeta.defaultsIn(
    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
  }

  if (!rawParam) return null

  // 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}
    pathMethod={ pathMethod }
    onChange={this.onChangeWrapper}
    onChangeConsumes={onChangeConsumes}
    isExecute={ isExecute }
    specSelectors={ specSelectors }
    consumes={
      specSelectors.consumesOptionsFor(pathMethod)
    }
    consumesValue={
      specSelectors.contentTypeValues(pathMethod).get('requestContentType')
    }
  
  const ModelExample = getComponent('modelExample')
  const Markdown = getComponent('Markdown')
  const ParameterExt = getComponent('ParameterExt')
  const ParameterIncludeEmpty = getComponent('ParameterIncludeEmpty')
  const ExamplesSelectValueRetainer = getComponent('ExamplesSelectValueRetainer')
  const Example = getComponent('Example')

  if (paramItems !== undefined) {
    paramEnum = paramItems.get('enum')
  }

  if (paramItems !== undefined) {
    paramDefaultValue = paramItems.get('default')
  }

  if (paramItems !== undefined) {
    paramExample = paramItems.get('example')
  }

  if (paramItems !== undefined) {
    paramExample = paramItems.get('example')
  }

  // Default
and Example Value for readonly doc

```javascript
if (param !== undefined) {
  paramDefaultValue = schema.get("default")
  paramExample = param.get("example")
  if (paramExample !== undefined) {
    paramExample = param.get("x-example")
  } else return null

  if (data-param-name) {
    [param.get("name")]
    data-param-in={param.get("in")}
    <tr>
      class="col parameter__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__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 parameter__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
        }
        { (isFormData && !isFormDataSupported) && <div>Error: your browser does not support FormData</div> }
        { isOAS3 && param.get("examples") ? ( <section className="parameter-controls">
          <ExamplesSelectValueRetainer
            examples={param.get("examples")}
            onSelect={this._onExampleSelect}
            updateValue={this.onChangeWrapper}
            getComponent={getComponent}
            defaultToFirstExample={true}
          />
        </section> ) : null }
        { bodyParam ? null
          : <JsonSchemaForm fn={fn}
            getComponent={getComponent}
            value={value}
            required={required}
            disabled={!isExecute}
            description={param.get("description")}
            onChange={this.onChangeWrapper}
            errors={paramWithMeta.get("errors")}
            schema={schema} />
        }
        { bodyParam && schema ? <ModelExample
          specPath={specPath}
          getConfigs={getConfigs}
          isExecute={isExecute}
          specSelectors={specSelectors}
          schema={param.get("schema")}
          example={bodyParam} />
          : null
        }
      </td>
    </tr>
  }
}
```

```json
// WEBPACK FOOTER //
//
```
let showOpId = id
let shown = layoutSelectors.isShown([showOpIdPrefix, showOpId])
return <OperationLink key={id} path={path} method={method} showOpId={showOpId} showOpIdPrefix={showOpIdPrefix} href={`#operation-${showOpId}`} onClick={layoutActions.show} />
).toArray()
</Collapse>
</div>

{ taggedOps.size < 1 &&
<h3> No operations defined in spec! </h3> }
</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.toUpperCase()}>{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
}

Exported class OperationLink extends React.Component.

// WEBPACK FOOTER //
// ./src/core/components/overview.jsx
fromJS({"application/json"}),\n  param: fromJS({}),\n  onChange: NOOP,\n  onChangeConsumes: NOOP,\n  constructor(props, context) {\n    super(props, context)\n    this.state = {\n      isEditBox: false,\n      value: \"\"\n    }\n    this.componentDidMount() {\n      this.updateValues.call(this, this.props)\n    }\n    \n    this.componentWillReceiveProps(nextProps) {\n      this.updateValues.call(this, nextProps)\n    }\n    \n    this.updateValues = (props) => {\n      let {\n        param, isExecute, consumeValue="\"\"\"\n      } = props, \n      let isXml = /xml/i.test(consumeValue)\n      let paramValue = isXml ? param.get("value_xml") : \n        param.get("value_json") \n    if (paramValue !== undefined) {\n      let val = !paramValue && isJson ? \"\" : \n        paramValue.toString()\n      this.setState(\n        {\n          value: val\n        }, this.onChange)\n    }\n    else {\n      if (isXml) {\n        this.onChange(this.state.samples.sample("xml"), this.samples.xml, isEditBox: isExecute)\n      } else {\n        \n      }\n    }\n  }\n
  componentDidMount() {
    this.updateValues.call(this, this.props)\n  }\n
  updateValues = (props) => {\n    let {\n      param, fn:{inferSchema} \n    } = this.props\n    let schema = inferSchema(param.toJS())\n    \n    \n  }\n
  onChange = (value, { isEditBox,\n    isXml }) => {\n    this.setState({value, isEditBox})\n    this._onChange(value, isXml)\n  }\n
  _onChange = (val,\n    isXml) => { (this.props.onChange || NOOP)(val, isXml)\n  }\n
  handleOnChange = e => {\n    const { consumesValue } = this.props\n    const isXml = /xml/i.test(consumesValue)\n    const inputValue = e.target.value\n    this.onChange(inputValue, {isXml})\n  }\n
  toggleIsEditBox = () => this.setState(\n    state => ({isEditBox: !state.isEditBox})\n  )\n
  render() {\n    let {\n      onChangeConsumes,\n      param,\n      isExecute,\n      getComponent,\n    } = this.props\n    \n    let parameter = specSelectors ? \n      specSelectors.parameterWithMetaByIdentity(pathMethod, param) : param\n    let errors = parameter.get("errors", List())\n    let consumesValue = specSelectors.contentTypeValues(pathMethod).get("requestContentType")\n    let consumes = this.props.consumes && this.props.consumes.size ? this.props.consumes : \n      ParamBody.defaultProp.consumes\n
    let { value, isEditBox } = this.state\n
    return (\n      <div \n
```
```javascript
for (let [k, v] of request.get("body").entrySeq()) {
  curlified.push(`-F "${k}=@${v.name}${v.type ? `;type=${v.type}` : ""}"`)
} else {
  curlified.push(`"${k}=${v}"`) 
}

return curlified.join(" ")
```

```javascript

WEBPACK FOOTER
// WEBPACK FOOTER //
// src/core/curlify.js,"import React from \"react\" import PropTypes from \"prop-types\"/\n
export default class Schemes extends React.Component {
  static propTypes = {
    specActions: PropTypes.object.isRequired,
    schemes: PropTypes.object.isRequired,
    currentScheme: PropTypes.string.isRequired
  }

  constructor(props, context) {
    super(props, context)

    let { schemes } = this.props

    this.state = {
      schemes : schemes || this.props.specActions.schemes.first()
    }

    this.toggleCollapsed = () => {
      this.setState({
        expanded: !this.state.expanded
      })
    }

    this.toggleCollapsed = () => {
      if (this.props.onToggle) {
        this.props.onToggle(this.props.modelName, !this.state.expanded)
      }

      this.setState({
        expanded: !this.state.expanded
      })
    }

    this.setState({
      expanded : expanded
    })
  }

  render () {
    const { title } = this.props
    return title ? <span className="model-toggle" onClick={this.toggleCollapsed} style={{ "cursor": "pointer" }}>{title}</span> : null
  }
} // WEBPACK FOOTER //
```

```javascript

export default class ModelCollapse extends Component {
  constructor(props, context) {
    super(props, context)

    this.state = {
      expanded : props.expanded
    }

    this.toggleCollapsed = () => {
      if (this.props.onToggle) {
        this.props.onToggle(props.modelName, !this.state.expanded)
      }

      this.setState({
        expanded: !this.state.expanded
      })
    }

    this.setState({
      expanded : expanded
    })
  }

  render () {
    const { title } = this.props
    return title ? <span className="model-toggle" onClick={this.toggleCollapsed} style={{ "cursor": "pointer" }}>{title}</span> : null
  }
} // WEBPACK FOOTER //
```
for (var key in source) { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] = source[key]; } }

return target;

function _createClass() {
  function defineProperties(target, props) {
    for (var i = 0; i < props.length; i++) {
      var descriptor = props[i];
      Object.defineProperty(target, descriptor.key, descriptor);
    }
    return function (Constructor, protoProps, staticProps) {
      if (protoProps)
        defineProperties(Constructor.prototype, protoProps);
      else if (staticProps)
        defineProperties(Constructor, staticProps);
      return Constructor;
    };
  }

  function _classCallCheck(instance, Constructor) {
    if (!(instance instanceof Constructor)) {
      throw new TypeError("Cannot call a class as a function");
    }
    return instance;
  }

  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 && superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true, configurable: true } });
    if (superClass)
      Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ = superClass;
  }

  var ImmutablePureComponent = function (_React$Component) {
    _inherits(ImmutablePureComponent, _React$Component);

    function ImmutablePureComponent() {
      _classCallCheck(this, ImmutablePureComponent);

      return _possibleConstructorReturn(this,
      (ImmutablePureComponent.__proto__ || Object.getPrototypeOf(ImmutablePureComponent)).apply(this,
      arguments));
    }

    _createClass(ImmutablePureComponent, [{
      key: "shouldComponentUpdate",
      value: function shouldComponentUpdate(nextProps) {
        var _this2 = this;

        var nextState = arguments.length > 1

        var state = this.state || {};

        return !(this.updateOnProps || Object.keys(_extends({}, nextProps, this.props))).every(function (p) {
          return immutable.is(nextProps[p], this.props[p]);
        }) || !(this.updateOnStates || Object.keys(_extends({}, nextState, state))).every(function (s) {
          return immutable.is(nextState[s], state[s]);
        });
      }
    }]);

    return ImmutablePureComponent;
  }(React.Component);

  exports.ImmutablePureComponent = ImmutablePureComponent;
  exports['default'] = ImmutablePureComponent;

  Object.defineProperty(exports, '__esModule', { value: true });

}));


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-immutable-pure-component/lib/react-immutable-pure-component.js
// module id = 1003
// module chunks =

import React, { Component } from "react";
import Im, { Map } from "immutable";
import PropTypes from "prop-types";

export default class Models extends Component {

  static propTypes = {
    getComponent: PropTypes.func,
    specSelectors: PropTypes.object,
    specActions: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object,
    layoutActions: PropTypes.object,
    getConfigs: PropTypes.func.isRequired
  }

  getSchemaBasePath = () => {
    const isOAS3 = this.props.specSelectors.isOAS3()
    return isOAS3 ? ["components", "schemas"] : ["definitions"]
  }

  getCollapsedContent = () => {
    return " 
  }

  handleToggle = (name, isExpanded) => {
    const { layoutActions } = this.props
    layoutActions.show(["models", name], isExpanded)
    if(isExpanded) {
      this.props.specActions.requestResolvedSubtree([...this.getSchemaBasePath(), name])
    }
  }

  render(){
    let { specSelectors, getComponent, layoutSelectors, layoutActions, getConfigs } = this.props
    let definitions = specSelectors.definitions()
    let { docExpansion, defaultModelsExpandDepth } = getConfigs()
    if (!definitions.size || defaultModelsExpandDepth < 0) return null

    let showModels = layoutSelectors.isShown(["models", isExpanded => (!isExpanded)]

    if (!isExpanded)
      let renderContent = () => {
        let hasDefinitions = definitions.size
        layoutActions.show(["models", !showModels])
        <h4 onClick={() =>
          layoutActions.show(["models", !showModels])}>
          <span>{isOAS3 ? "Schemas" : "Models" } <span>

PrintedPage
Open Source Used In MSX SD-WAN Service Pack 4.0.0
const Markdown = getComponent("Markdown")
const ModelCollapse = getComponent("ModelCollapse")
const Model = getComponent("Model")
const Property = getComponent("Property")

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>
method that does all the magic :)

```javascript
/**
 * @param  {String} `string`
 * @param  {Object} `env`
 * @return {String} Rendered HTML.
 */

Remarkable.prototype.render = function (str, env) {
  env = env || {};
  return
  this.renderer.render(this.parse(str, env), this.options, env);
};

/**
 * Parse the given content `string` as a single
 * `string`, without wrapping it to as paragraphs.
 * @param  {String} `string`
 * @param  {Object} `env`
 * @return {Array} tokens
 */

Remarkable.prototype.parse = function (str, env) {
  env = env || {};
  return
  this.renderer.parseInLine(str, env, this.options, env);
};

/**
 * Expose `Remarkable`
 */

module.exports = Remarkable;

/**
 * Expose `utils`, Useful helper functions for custom * rendering.
 */

module.exports.utils = require('./common/utils');

```
// abbr title is always one line, so looking for ending `\"\n` here\n for (pos = labelEnd + 2; pos < max; pos++) {\n if (state.src.charCodeAt(pos) === 0x0A) { break; }\n }\n
  return -1;\n
}

module.exports = function footnote_block(state) {
  var tokens = state.tokens, current, currentLabel,
    level = 0, insideRef = false,
    refTokens = {};

  if (tokens[i - 1].type === 'paragraph_open' &&\n    tokens[i].type === 'inline' &&\n    tokens[i + 1].type === 'paragraph_close') {
    var content = tokens[i].content;\n    while (content.length) {\n      pos = parseAbbr(content, state.inline, state.options, state.env);\n      if (pos < 0) { break; }\n      content = content.slice(pos).trim();\n    }
  }
  return pos;
}

var parseAbbr = function parseAbbr(content, parser, options, env) {
  var tokens = state.tokens, tok, i, l;

  if (state.inlineMode) { return; }

  // Parse inlines\n  for (i = 1, l = tokens.length - 1; i < l; i++) {\n    tok = tokens[i];\n    if (tok.type === 'inline') {\n      if (tok.tokens &&\n        tok.tokens[i].type === 'paragraph_open' &&\n        tok.tokens[i + 1].type === 'paragraph_close') {\n        var content = tok.tokens[i].content;\n        while (content.length) {\n          pos = parseAbbr(content, state.inline, state.options, state.env);\n          if (pos < 0) { break; }\n          content = content.slice(pos).trim();\n        }
      }
    }
  }

  if (state.env.references) { return; }\n
  // prepend ':' to avoid conflict with Object.prototype members\n  if (typeof env.abbreviations[\'\'+ label\'] === 'undefined') {\n    env.abbreviations[\'\'+ label\'] = title;
  }

  return pos;
}

module.exports = function abbr(state) {\n  var tokens = state.tokens, i, l, content, pos,\n    if (state.inlineMode) { return; }

  // Parse inlines\n  for (i = 1, l = tokens.length - 1; i < l; i++) {\n    if (tokens[i - 1].type === 'paragraph_open' &&\n      tokens[i].type === 'inline' &&\n      tokens[i + 1].type === 'paragraph_close') {\n      var content = tokens[i].content;\n      while (content.length) {\n        pos = parseAbbr(content, state.inline, state.options, state.env);\n        if (pos < 0) { break; }\n        content = content.slice(pos).trim();\n      }
    }
  }

  if (state.env.references) { return; }\n
  // prepend ':' to avoid conflict with Object.prototype members\n  if (typeof env.abbreviations[\'\'+ label\'] === 'undefined') {\n    env.abbreviations[\'\'+ label\'] = title;
  }

  return pos;
}
Autolinker: easy-to-use link normalization utility class

## Basic Usage

```javascript
var autolinker = new Autolinker();

var input = "Joe went to www.yahoo.com";
var output = autolinker.link(input);
// produces: 'Joe went to http://www.yahoo.com'
```

## Link Types

The `Autolinker` class supports various link types. For instance:

- `url` for URLs
- `email` for email addresses
- `twitter` for Twitter handles

## Link HTML Tag

The `Autolinker` class can wrap links in an HTML `<a>` tag. For example:

```javascript
autolinker.htmlTag = false; // do not wrap links in HTML tags

var output = autolinker.link(input);
// produces: 'Joe went to www.yahoo.com'
```

## Static Linking

The `Autolinker` class also supports static linking, which allows for easy one-off usage:

```javascript
autolinker = Autolinker.staticLink("http://www.yahoo.com");
var output = autolinker.link(input);
// produces: 'Joe went to http://www.yahoo.com'
```

## Options

The `Autolinker` class supports a variety of configuration options. For example:

- `newWindow`: true/false to open links in a new window
- `truncate`: number of characters to truncate links
- `blockTokens`: array to block certain tokens from being processed
- `linkify`: true/false to enable linkification

## Examples

```javascript
// Example 1: Linking URLs
autolinker = Autolinker.staticLink("http://www.yahoo.com");
var output = autolinker.link(input);
// produces: 'Joe went to http://www.yahoo.com'

// Example 2: Linking Email Addresses
autolinker = Autolinker.staticLink("mail@gregjacobs.com");
var output = autolinker.link(input);
// produces: 'Joe went to mail@gregjacobs.com

// Example 3: Linking Twitter Handles
autolinker = Autolinker.staticLink("@gregjacobs");
var output = autolinker.link(input);
// produces: 'Joe went to @gregjacobs'
```

The `Autolinker` class provides a powerful and flexible solution for linking text in various formats.
The AnchorTagBuilder instance used to build the URL/email/Twitter replacement anchor tags. This is lazily instantiated in the `@link #getTagBuilder` method.

- undefined: Automatically links URLs, email addresses, and Twitter handles found in the given chunk of HTML.
- null: Does not link URLs found within HTML tags.
- string: 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>`.

This method finds the text around any HTML elements in the input `textOrHtml`, which will be the text that is processed. Any original HTML elements will be left as-is, as well as the text that is already wrapped in anchor (`&lt;a&gt;` tags). This is lazily instantiated in the `@link #getTagBuilder` method. The HTML text to link URLs, email addresses, and Twitter handles within (depending on if null * the `@link #urls`, `@link #email`, and `@link #twitter` options are enabled).

```javascript
/**
 * 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
*
 * This method finds the text around any HTML elements in the input `textOrHtml`, which
will be the text that is processed. Any original HTML elements will be left as-is, as
well as the text that is already wrapped in anchor (`&lt;a&gt;` tags). This is lazily
instantiated in the `@link #getTagBuilder` method. The HTML text to link URLs, email
addresses, and Twitter handles within (depending on if null * the `@link #urls`,
`@link #email`, and `@link #twitter` options are enabled).

### getTagBuilder

```javascript
**
 * The AnchorTagBuilder instance used to build the URL/email/Twitter replacement anchor
 * tags. This is lazily instantiated in the `@link #getTagBuilder` method.
 * undefined: Automatically links URLs, email addresses, and Twitter handles found in the
given chunk of HTML. null: 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>`.
```
Autolinker.htmlParser.HtmlParser();

/**
 * Lazily instantiates and returns the {Autolinker.matchParser} instance for this Autolinker instance.
 */

getMatchParser : function() {

	var matchParser = this.matchParser;
	null

	if( !matchParser ) {

		matchParser = this.matchParser = new Autolinker.matchParser.MatchParser( this.urls, this.email, this.twitter, this.stripPrefix );

	}

	return matchParser;

},

/**
 * Lazily instantiates and returns the {Autolinker.HtmlTag} instance for this Autolinker instance, lazily instantiating if it doesn't exist.
 */

tagBuilder:

	var tagBuilder = this.tagBuilder;

	if( !tagBuilder ) {

	
tagBuilder = this.tagBuilder = new Autolinker.AnchorTagBuilder( this.newWindow, this.truncate, this.className );

	}

	return tagBuilder;

},

/**
 * 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"
 * 
 * @static
 * @param {String} textOrHtml The HTML or text to find URLs, email addresses, and Twitter handles within (depending on if the {urls}, {email}, and {twitter} options are enabled).
 * @param {Object} [options] Any of the configuration options for the Autolinker class, specified in an Object (map).
 *   See the class description for an example call.
 * @return {String} The HTML text, with URLs automatically linked
 */

link = function( textOrHtml, options ) {

	var autolinker = new Autolinker( options );

	return autolinker.link( textOrHtml );

};


/* Autolinker
Namespaces
Autolinker.match = {};
Autolinker.htmlParser = {};
/*global Autolinker */
/*jshint eqnull:true, boss:true */

/**
 * @class Autolinker.Util
 * @singleton
 * 
 * A few utility methods for Autolinker.
 */

Util = {

text : function( superclass, protoProps ) {

	var superclassProto = superclass.prototype;

	var F = function() { superclassProto.constructor.apply( this, arguments ); };

	var subclassProto = superclass.prototype = new F();

	if( this.prototype.constructor !== subclassProto.constructor ){

		this.prototype = subclassProto;

	}


text.extend( function( superclass, protoProps ) {

	var superclassPrototype = superclass.prototype;

	var subclassPrototype = superclass.prototype;

	var subclassProto = subclassPrototype = new F();

	if( subclassProto.constructor != superclassProto.prototype.constructor ) {

		subclassProto = superclassProto.prototype.constructor = subclassProto;

	}


text.extend( function( superclasse
'Load URL: ' + match.getAnchorText()\n *
} );\n *
\n *
return tag;\n *
}\n * } );\n *
\n * // generated html:\n * // Test <button title=\"Load URL: http://google.com\">Load URL:
google.com</button>\n */\nAutolinker.HtmlTag = Autolinker.Util.extend( Object, {\n\t\n\t/**\n\t * @cfg {String}
tagName\n\t * \n\t * The tag name. Ex: 'a', 'button', etc.\n\t * \n\t * Not required at instantiation time, but should be
set using {@link #setTagName} before {@link #toString}\n\t * is executed.\n\t */\n\t\n\t/**\n\t * @cfg
{Object.<String, String>} attrs\n\t * \n\t * An key/value Object (map) of attributes to create the tag with. The keys
are the attribute names, and the\n\t * values are the attribute values.\n\t */\n\t\n\t/**\n\t * @cfg {String}
innerHtml\n\t * \n\t * The inner HTML for the tag. \n\t * \n\t * Note the camel case name on `innerHtml`. Acronyms
are camelCased in this utility (such as not to run into the acronym \n\t * naming inconsistency that the DOM
developers created with `XMLHttpRequest`). You may alternatively use {@link #innerHTML}\n\t * if you prefer,
but this one is recommended.\n\t */\n\t\n\t/**\n\t * @cfg {String} innerHTML\n\t * \n\t * Alias of {@link
#innerHtml}, accepted for consistency with the browser DOM api, but prefer the camelCased version\n\t * for
acronym names.\n\t */\n\t\n\t\n\t/**\n\t * @protected\n\t * @property {RegExp} whitespaceRegex\n\t * \n\t *
Regular expression used to match whitespace in a string of CSS classes.\n\t */\n\twhitespaceRegex :
/\\s+/,\n\t\n\t\n\t/**\n\t * @constructor\n\t * @param {Object} [cfg] The configuration properties for this class, in an
Object (map)\n\t */\n\tconstructor : function( cfg ) {\n\t\tAutolinker.Util.assign( this, cfg );\n\t\t\n\t\tthis.innerHtml =
this.innerHtml || this.innerHTML; // accept either the camelCased form or the fully capitalized
acronym\n\t},\n\t\n\t\n\t/**\n\t * Sets the tag name that will be used to generate the tag with.\n\t * \n\t * @param
{String} tagName\n\t * @return {Autolinker.HtmlTag} This HtmlTag instance, so that method calls may be
chained.\n\t */\n\tsetTagName : function( tagName ) {\n\t\tthis.tagName = tagName;\n\t\treturn
this;\n\t},\n\t\n\t\n\t/**\n\t * Retrieves the tag name.\n\t * \n\t * @return {String}\n\t */\n\tgetTagName : function()
{\n\t\treturn this.tagName || \"\";\n\t},\n\t\n\t\n\t/**\n\t * Sets an attribute on the HtmlTag.\n\t * \n\t * @param
{String} attrName The attribute name to set.\n\t * @param {String} attrValue The attribute value to set.\n\t *
@return {Autolinker.HtmlTag} This HtmlTag instance, so that method calls may be chained.\n\t */\n\tsetAttr :
function( attrName, attrValue ) {\n\t\tvar tagAttrs = this.getAttrs();\n\t\ttagAttrs[ attrName ] =
attrValue;\n\t\t\n\t\treturn this;\n\t},\n\t\n\t\n\t/**\n\t * Retrieves an attribute from the HtmlTag. If the attribute does
not exist, returns `undefined`.\n\t * \n\t * @param {String} name The attribute name to retrieve.\n\t * @return
{String} The attribute's value, or `undefined` if it does not exist on the HtmlTag.\n\t */\n\tgetAttr : function(
attrName ) {\n\t\treturn this.getAttrs()[ attrName ];\n\t},\n\t\n\t\n\t/**\n\t * Sets one or more attributes on the
HtmlTag.\n\t * \n\t * @param {Object.<String, String>} attrs A key/value Object (map) of the attributes to set.\n\t *
@return {Autolinker.HtmlTag} This HtmlTag instance, so that method calls may be chained.\n\t */\n\tsetAttrs :
function( attrs ) {\n\t\tvar tagAttrs = this.getAttrs();\n\t\tAutolinker.Util.assign( tagAttrs, attrs );\n\t\t\n\t\treturn
this;\n\t},\n\t\n\t\n\t/**\n\t * Retrieves the attributes Object (map) for the HtmlTag.\n\t * \n\t * @return
{Object.<String, String>} A key/value object of the attributes for the HtmlTag.\n\t */\n\tgetAttrs : function()
{\n\t\treturn this.attrs || ( this.attrs = {} );\n\t},\n\t\n\t\n\t/**\n\t * Sets the provided `cssClass`, overwriting any
current CSS classes on the HtmlTag.\n\t * \n\t * @param {String} cssClass One or more space-separated CSS
classes to set (overwrite).\n\t * @return {Autolinker.HtmlTag} This HtmlTag instance, so that method calls may be
chained.\n\t */\n\tsetClass : function( cssClass ) {\n\t\treturn this.setAttr( 'class', cssClass );\n\t},\n\t\n\t\n\t/**\n\t *
Convenience method to add one or more CSS classes to the HtmlTag. Will not add duplicate CSS classes.\n\t * \n\t
* @param {String} cssClass One or more space-separated CSS classes to add.\n\t * @return {Autolinker.HtmlTag}
This HtmlTag instance, so that method calls may be chained.\n\t */\n\taddClass : function( cssClass ) {\n\t\tvar
classAttr = this.getClass(),\n\t\t whitespaceRegex = this.whitespaceRegex,\n\t\t indexOf =
Autolinker.Util.indexOf, // to support IE8 and below\n\t\t classes = ( !classAttr ) ? [] : classAttr.split(
whitespaceRegex ),\n\t\t newClasses = cssClass.split( whitespaceRegex ),\n\t\t newClass;\n\t\t\n\t\twhile(
newClass = newClasses.shift() ) {\n\t\t\tif( indexOf( classes, newClass ) === -1 ) {\n\t\t\t\tclasses.push( newClass
);\n\t\t\t}\n\t\t}\n\t\t\n\t\tthis.getAttrs()[ 'class' ] = classes.join( \" \" );\n\t\treturn this;\n\t},\n\t\n\t\n\t/**\n\t *
Convenience method to remove one or more CSS classes from the HtmlTag.\n\t * \n\t * @param {String} cssClass
One or more space-separated CSS classes to remove.\n\t * @return {Autolinker.HtmlTag} This HtmlTag instance,

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so that method calls may be chained.

```
*@
removeClass : function( cssClass ) { var classAttr = this.getClass(), whitespaceRegex = this.whitespaceRegex, indexOf = Autolinker.Util.indexOf, // to support IE8 and below classes = ( classAttr ) ? [] : classAttr.split( whitespaceRegex ), removeClasses = cssClass.split( whitespaceRegex ); var removeClass = removeClasses.shift(); }

removeClass : function( cssClass ) {
    var classAttr = this.getClass(), whitespaceRegex = this.whitespaceRegex, indexOf = Autolinker.Util.indexOf, // to support IE8 and below classes = ( classAttr ) ? [] : classAttr.split( whitespaceRegex ), removeClasses = cssClass.split( whitespaceRegex );
    var removeClass = removeClasses.shift();

    while( classes.length && ( removeClass = removeClasses.shift() ) ) {
        var idx = indexOf( classes, removeClass );
        if( idx !== -1 ) {
            classes.splice( idx, 1 );
        }
    }

    this.getAttrs()[ 'class' ] = classes.join( ' ' );
    return this;
},

getClass : function() {
    return this.getAttrs()[ 'class' ] || '';
},

hasClass : function( cssClass ) {
    return ( ' ' + this.getClass() + ' ' ).indexOf( ' ' + cssClass + ' ' ) !== -1;
},

setInnerHtml : function( html ) {
    this.innerHtml = html;
    return this;
},

getInnerHtml : function() {
    return this.innerHtml || '';
},

toString : function() {
    var tagName = this.getTagName(), attrsStr = this.buildAttrsStr();

    attrsStr = ( attrsStr ) ? ' ' + attrsStr : '';  // prepend a space if there are actually attributes
    return [ '<', tagName, attrsStr, '>', this.getInnerHtml(), '</', tagName, '>', ]
};
```

```
Autolinker.AnchorTagBuilder = Autolinker.Util.extend( Object, {
    **newWindow**
    **truncate**
    **className**
});
```

```
/**
 * @constructor
 * @param {Object} [cfg] The configuration options for the AnchorTagBuilder instance, specified in an Object (map).
 */
constructor : function( cfg ) {
    Autolinker.Util.assign( this, cfg );

    this.tag = new Autolinker.AnchorTagBuilder().build( match ); // returns an [ @link Autolinker.AnchorTagBuilder ] instance
    return this;
};
```

```
rel="noreferrer">google.com</a>
```
@return {Object} A key/value Object (map) of the anchor tag's attributes. 

```javascript
	/*
	 * `createAttrs` function (matchType, anchorHref) {
		var attrMap = {
			typeof anchorHref === 'undefined' ? {} : {
				'href' : anchorHref // we'll always have the 'href'
		};
		
		var cssClass = this.createClass(matchType);
		if (cssClass) {
			attrMap['class'] = cssClass;
			attrMap['target'] = '_blank';
		}
		return attrMap;
	}
```

```javascript
	createCssClass : function(model) {
		var className = this.className;
		
		if ( !className ) 
			return "";
		else
			return className + " " + className + "-
```

```javascript
	processAnchorText : function(processedText) {
		anchorText = this.doTruncate(processedText); 
		return anchorText;
	},
	
	/*
	 * Performs the truncation of the `anchorText`, if the `anchorText` is longer than the `truncate` option. 
	 * Truncates the text to 2 characters fewer than the `truncate` option, and adds the `..` to the end.
	 */

```javascript
	doTruncate : function(text, truncate) {
		return Autolinker.Util.ellipsis(text, truncate || Number.POSITIVE_INFINITY);
	}

```javascript
/*global Autolinker */
/**
 * @private
 * @class
 * Autolinker.htmlParser.HtmlParser
 * @extends Object
 * 
 * An HTML parser implementation which simply walks an HTML string and returns an array of
 * Autolinker.htmlParser.HtmlNode

```javascript
```
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```javascript
/**
 * @private
 * @property {RegExp}
 * htmlCharacterEntitiesRegex
 * The regular expression that matches common HTML character entities.
 * Ignoring & as it could be part of a query string -- handling it separately.
 */
htmlCharacterEntitiesRegex:
  /( | |<|>|"|')/gi,

/**
 * Parses an HTML string and returns a simple array of {
 * @link Autolinker.htmlParser.HtmlNode HtmlNodes} to represent
 * the HTML structure of the input string.
 * @param {String} html The HTML to parse.
 * @return {
 * Autolinker.htmlParser.HtmlNode[]}
 */
parse : function( html ) {
  var htmlRegex = this.htmlRegex,
      currentResult,
      lastIndex = 0,
      textAndEntityNodes,
      nodes = [];

  while( ( currentResult = htmlRegex.exec( html ) ) !== null ) {
    var tagText = currentResult[ 0 ].tagText = currentResult[ 0 ],
      tagName = currentResult[ 1 ] || currentResult[ 3 ],
      isClosingTag = !!currentResult[ 2 ],
      inBetweenTagsText = html.substring( lastIndex, currentResult.index );

    if( inBetweenTagsText ) {
      textAndEntityNodes = this.parseTextAndEntityNodes( inBetweenTagsText );
      nodes.push.apply( nodes, textAndEntityNodes );
    }

    nodes.push( this.createElementNode( tagText, tagName, isClosingTag ) );
    lastIndex = currentResult.index + tagText.length;
  }

  // Process any remaining text after the last HTML element.
  if( lastIndex < html.length ) {
    var text = html.substring( lastIndex );
    if( text ) {
      textAndEntityNodes = this.parseTextAndEntityNodes( text );
      nodes.push.apply( nodes, textAndEntityNodes );
    }
  }

  return nodes;
},

/**
 * Parses text and HTML entity nodes from a given string. The input string should not have any HTML tags (elements).
 * @private
 * @param {String} text The text to parse.
 * @return {Autolinker.htmlParser.HtmlNode[]}
 */
parseTextAndEntityNodes : function( text ){
  var nodes = [],
      textAndEntityTokens = Autolinker.Util.splitAndCapture( text, this.htmlCharacterEntitiesRegex );

  for( var i = 0, len = textAndEntityTokens.length; i < len; i += 2 ){
    var textToken = textAndEntityTokens[ i ],
        entityToken = textAndEntityTokens[ i + 1 ];

    if( textToken ) nodes.push( this.createTextNode( textToken ) );
    if( entityToken ) nodes.push( this.createEntityNode( entityToken ) );
  }

  return nodes;
},

/**
 * Factory method to create an ElementNode.
 * @private
 * @param {String} tagText The full text of the tag (element) that was matched, including its attributes.
 * @param {String} tagName The name of the tag. Ex: An <img> tag would be passed to this method as "img".
 * @param {Boolean} isClosingTag true if it's a closing tag, false otherwise.
 * @return {Autolinker.htmlParser.ElementNode}
 */
createElementNode : function( tagText, tagName, isClosingTag ) {
  return new Autolinker.htmlParser.ElementNode( {
    text    : tagText,
    tagName : tagName.toLowerCase(),
    closing : isClosingTag
  } );
},

/**
 * Factory method to create a EntityNode.
 * @private
 * @param {String} text The text that was matched.
 * @return {Autolinker.htmlParser.EntityNode}
 */
createEntityNode : function( text ){
  return new Autolinker.htmlParser.EntityNode( { text: text } );
},

/**
 * Factory method to create aTextNode.
 * @private
 * @param {String} text The text.
 * @return {Autolinker.htmlParser.TextNode}
 */
createTextNode : function( text ){
  return new Autolinker.htmlParser.TextNode( { text: text } );
}
} );
/*global Autolinker */
/**
 * @abstract
 * @class Autolinker.htmlParser.HtmlNode
 * Represents an HTML node found in an input string.
 * An HTML node is one of the following:
 * 1. An ElementNode,
 * 2. A TextNode,
 * 3. An EntityNode,
 */
```

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which represents HTML tags. 2. A [*link Autolinker.htmlParserTextNode TextNode*], which represents text outside or within HTML tags. 3. A [*link Autolinker.htmlParserEntityNode EntityNode*], which represents one of the known HTML entities that Autolinker looks for. This includes common ones such as `&amp;quot;` and `&amp;nbsp;`.

In the case of an [*link Autolinker.htmlParserElementNode ElementNode*], this will be the tag's text. In the case of a [*link Autolinker.htmlParserTextNode TextNode*], this will be the text itself. - In the case of a [*link Autolinker.htmlParserEntityNode EntityNode*], this will be the text of the HTML entity node. - In the case of a [*link Autolinker.htmlParserElementNode ElementNode*], this will be the text of the tag.

```javascript
Autolinker.htmlParser.HtmlNode = Autolinker.Util.extend( Object, {
  text : "", // the original text that was matched for the HtmlNode.
    /**
     * @cfg {String} text (required)
     * The original text that was matched for the HtmlNode.
     * - In the case of a [*link Autolinker.htmlParserTextNode TextNode*], this will be the text.
     * - In the case of a [*link Autolinker.htmlParserElementNode ElementNode*], this will be the tag's text.
     * - In the case of a [*link Autolinker.htmlParserEntityNode EntityNode*], this will be the text of the HTML entity.
     */
    text : "",

    constructor : function( cfg ) {
      Autolinker.Util.assign( this, cfg );
    },

    /**
     * Returns a string name for the type of node that this class represents.
     * - In the case of a [*link Autolinker.htmlParserTextNode TextNode*], this will be the type of the node.
     * - In the case of a [*link Autolinker.htmlParserElementNode ElementNode*], this will be the type of the tag.
     * - In the case of a [*link Autolinker.htmlParserEntityNode EntityNode*], this will be the type of the HTML entity.
     */
    getType : function() {
      return 'htmlParser.HtmlNode';
    },

    /**
     * Returns a string name for the type of node that this class represents.
     * - In the case of a [*link Autolinker.htmlParserTextNode TextNode*], this will be the type of the node.
     * - In the case of a [*link Autolinker.htmlParserElementNode ElementNode*], this will be the type of the tag.
     * - In the case of a [*link Autolinker.htmlParserEntityNode EntityNode*], this will be the type of the HTML entity.
     */
    getType : function() {
      return 'htmlParser.TextNode';
    }
  });

/*global Autolinker */
/**
 * @class Autolinker.htmlParser.ElementNode
 * @extends Autolinker.htmlParser.HtmlNode
 * Represents an HTML element node that has been parsed by the HTMLParser.
 */
  /**
   * @cfg {String} tagName (required)
   * The name of the tag that was matched.
   */
  tagName : '',

  /**
   * @cfg {Boolean} closing (required)
   * `true` if the element (tag) is a closing tag, `false` if its an opening tag.
   */
  closing : false,

  /**
   * Returns a string name for the type of node that this class represents.
   * - In the case of a [*link Autolinker.htmlParserTextNode TextNode*], this will be the type of the node.
   * - In the case of a [*link Autolinker.htmlParserElementNode ElementNode*], this will be the type of the tag.
   * - In the case of a [*link Autolinker.htmlParserEntityNode EntityNode*], this will be the type of the HTML entity.
   */
  getType : function() {
    return 'element';
  },

  /**
   * Returns the HTML element's (tag's) name.
   */
  getTagName : function() {
    return this.tagName;
  },

  /**
   * Determines if the HTML element (tag) is a closing tag.
   */
  isClosing : function() {
    return this.closing;
  }
});

/*global Autolinker */
/**
 * @class Autolinker.htmlParser.EntityNode
 * @extends Autolinker.htmlParser.HtmlNode
 * Represents a known HTML entity node that has been parsed by the HTMLParser.
 */
  /**
   * Returns a string name for the type of node that this class represents.
   * - In the case of a [*link Autolinker.htmlParserTextNode TextNode*], this will be the type of the node.
   * - In the case of a [*link Autolinker.htmlParserElementNode ElementNode*], this will be the type of the tag.
   * - In the case of a [*link Autolinker.htmlParserEntityNode EntityNode*], this will be the type of the HTML entity.
   */
  getType : function() {
    return 'entity';
  }
});

/*global Autolinker */
/**
 * @class Autolinker.htmlParser.TextNode
 * @extends Autolinker.htmlParser.HtmlNode
 * Represents a text node that has been parsed by the HTMLParser.
 */
  /**
   * Returns a string name for the type of node that this class represents.
   * - In the case of a [*link Autolinker.htmlParserTextNode TextNode*], this will be the type of the node.
   * - In the case of a [*link Autolinker.htmlParserElementNode ElementNode*], this will be the type of the tag.
   * - In the case of a [*link Autolinker.htmlParserEntityNode EntityNode*], this will be the type of the HTML entity.
   */
  getType : function() {
    return 'text';
  }
});

/*global Autolinker */
/**
 * @private
 * @class Autolinker.matchParser.MatchParser
 * Used by Autolinker to parse [*link #urls URLs*], [*link #emails email addresses*], and [*link #twitter Twitter handles*], given an input string of text.
 */
Autolinker.matchParser.MatchParser = Autolinker.Util.extend( Object, {
  /**
   * @cfg {Boolean} urls
   * `true` if miscellaneous URLs should be automatically linked, `false` if they should not be.
   */
  urls : true,
});
```

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ye|yt|za|zm|zw)\\b/, // match our known top level domains (TLDs)\n\t\t \n\t\t // Allow optional path, query
string, and hash anchor, not ending in the following characters: \"?!:,.;\"\n\t\t // http://blog.codinghorror.com/theproblem-with-urls/\n\t\t urlSuffixRegex = /[\\-A-Za-z0-9+&@#\\/%=~_()|'$*\\[\\]?!:,.;]*[\\-A-Za-z09+&@#\\/%=~_()|'$*\\[\\]]/;\n\t\t\n\t\treturn new RegExp( [\n\t\t\t'(', // *** Capturing group $1, which can be used
to check for a twitter handle match. Use group $3 for the actual twitter handle though. $2 may be used to reconstruct
the original string in a replace() \n\t\t\t\t// *** Capturing group $2, which matches the whitespace character before
the '@' sign (needed because of no lookbehinds), and \n\t\t\t\t// *** Capturing group $3, which matches the actual
twitter handle\n\t\t\t\ttwitterRegex.source,\n\t\t\t')',\n\t\t\t\n\t\t\t'|',\n\t\t\t\n\t\t\t'(', // *** Capturing group $4, which is
used to determine an email
match\n\t\t\t\temailRegex.source,\n\t\t\t\tdomainNameRegex.source,\n\t\t\t\ttldRegex.source,\n\t\t\t')',\n\t\t\t\n\t\t\t'|',\
n\t\t\t\n\t\t\t'(', // *** Capturing group $5, which is used to match a URL\n\t\t\t\t'(?:', // parens to cover match for
protocol (optional), and domain\n\t\t\t\t\t'(', // *** Capturing group $6, for a protocol-prefixed url (ex:
http://google.com)\n\t\t\t\t\t\tprotocolRegex.source,\n\t\t\t\t\t\tdomainNameRegex.source,\n\t\t\t\t\t')',\n\t\t\t\t\t\n\t\t\t\t
\t'|',\n\t\t\t\t\t\n\t\t\t\t\t'(?:', // non-capturing paren for a 'www.' prefixed url (ex: www.google.com)\n\t\t\t\t\t\t'(.?//)?',
// *** Capturing group $7 for an optional protocol-relative URL. Must be at the beginning of the string or start with
a non-word
character\n\t\t\t\t\t\twwwRegex.source,\n\t\t\t\t\t\tdomainNameRegex.source,\n\t\t\t\t\t')',\n\t\t\t\t\t\n\t\t\t\t\t'|',\n\t\t\t\t\t
\n\t\t\t\t\t'(?:', // non-capturing paren for known a TLD url (ex: google.com)\n\t\t\t\t\t\t'(.?//)?', // *** Capturing
group $8 for an optional protocol-relative URL. Must be at the beginning of the string or start with a non-word
character\n\t\t\t\t\t\tdomainNameRegex.source,\n\t\t\t\t\t\ttldRegex.source,\n\t\t\t\t\t')',\n\t\t\t\t')',\n\t\t\t\t\n\t\t\t\t'(?:' +
urlSuffixRegex.source + ')?', // match for path, query string, and/or hash anchor - optional\n\t\t\t')'\n\t\t].join( \"\" ),
'gi' );\n\t} )(),\n\t\n\t/**\n\t * @private\n\t * @property {RegExp} charBeforeProtocolRelMatchRegex\n\t * \n\t *
The regular expression used to retrieve the character before a protocol-relative URL match.\n\t * \n\t * This is used
in conjunction with the {@link #matcherRegex}, which needs to grab the character before a protocol-relative\n\t *
'//' due to the lack of a negative look-behind in JavaScript regular expressions. The character before the match is
stripped\n\t * from the URL.\n\t */\n\tcharBeforeProtocolRelMatchRegex : /^(.)?\\/\\//,\n\t\n\t/**\n\t * @private\n\t *
@property {Autolinker.MatchValidator} matchValidator\n\t * \n\t * The MatchValidator object, used to filter out
any false positives from the {@link #matcherRegex}. See\n\t * {@link Autolinker.MatchValidator} for details.\n\t
*/\n\t\n\t\n\t/**\n\t * @constructor\n\t * @param {Object} [cfg] The configuration options for the
AnchorTagBuilder instance, specified in an Object (map).\n\t */\n\tconstructor : function( cfg )
{\n\t\tAutolinker.Util.assign( this, cfg );\n\t\n\t\tthis.matchValidator = new
Autolinker.MatchValidator();\n\t},\n\t\n\t\n\t/**\n\t * Parses the input `text` to search for URLs/emails/Twitter
handles, and calls the `replaceFn`\n\t * to allow replacements of the matches. Returns the `text` with matches
replaced.\n\t * \n\t * @param {String} text The text to search and repace matches in.\n\t * @param {Function}
replaceFn The iterator function to handle the replacements. The function takes a\n\t * single argument, a {@link
Autolinker.match.Match} object, and should return the text that should\n\t * make the replacement.\n\t * @param
{Object} [contextObj=window] The context object (\"scope\") to run the `replaceFn` in.\n\t * @return {String}\n\t
*/\n\treplace : function( text, replaceFn, contextObj ) {\n\t\tvar me = this; // for closure\n\t\t\n\t\treturn text.replace(
this.matcherRegex, function( matchStr, $1, $2, $3, $4, $5, $6, $7, $8 ) {\n\t\t\tvar matchDescObj =
me.processCandidateMatch( matchStr, $1, $2, $3, $4, $5, $6, $7, $8 ); // \"match description\" object\n\t\t\t\n\t\t\t//
Return out with no changes for match types that are disabled (url, email, twitter), or for matches that are \n\t\t\t//
invalid (false positives from the matcherRegex, which can't use look-behinds since they are unavailable in
JS).\n\t\t\tif( !matchDescObj ) {\n\t\t\t\treturn matchStr;\n\t\t\t\t\n\t\t\t} else {\n\t\t\t\t// Generate replacement text for
the match from the `replaceFn`\n\t\t\t\tvar replaceStr = replaceFn.call( contextObj, matchDescObj.match
);\n\t\t\t\treturn matchDescObj.prefixStr + replaceStr + matchDescObj.suffixStr;\n\t\t\t}\n\t\t}
);\n\t},\n\t\n\t\n\t/**\n\t * Processes a candidate match from the {@link #matcherRegex}. \n\t * \n\t * Not all
matches found by the regex are actual URL/email/Twitter matches, as determined by the {@link #matchValidator}.
In\n\t * this case, the method returns `null`. Otherwise, a valid Object with `prefixStr`, `match`, and `suffixStr` is

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```javascript
returned.

* @private
* @param {String} matchStr The full match that was found by the {@link
matcherRegex}@param {String} matchStr The matched text of a Twitter handle, if the match is a
Twitter match. @param {String} twitterMatch The whitespace char before the @ sign in a Twitter handle match. This @param
* is needed because of no lookbehinds in JS regexes, and is needed to re-include the character for the anchor tag replacement.*
* @param {String} twitterHandle The actual Twitter user (i.e the word after the @ sign in a Twitter match).
* @param {String} emailAddressMatch The matched URL string for a protocol match. Ex: 'http://yahoo.com'. This is used to
matchStr
* something like '<http://localhost', where we won't double check that the domain name has at least one
* in it. @param {String} wwwProtocolRelativeMatch The '// for a protocol-relative match from a 'www' url,
* with the character that @param comes before the '/'. @param {String} protocolRelativeMatch The '// for a
protocol-relative match from a TLD (top level domain) match, with @param the character that comes before the
'//'. @param Object A "match description object". This will be 'null' if the match was invalid, or if a
* type is disabled. Otherwise, this will be an Object (map) with the following properties:
* @param {String} return.prefixStr The char(s) that should be prepended to the replacement string. These are char(s)
* that were needed to be included from the regex match that were ignored by processing code, and should be re-inserted
* into @param the replacement stream. @param {String} return.suffixStr The char(s) that should be appended to
* the replacement string. These are char(s) that were needed to be included from the regex match that were
* ignored by processing code, and should be re-inserted into @param the replacement string.
* @param {String} protocolRelativeMatch = wwwProtocolRelativeMatch || protocolRelativeMatch, // Will be an Autolinker.match.Match
* object
* @param {String} prefixStr = "\"", // A string to use to prefix the anchor tag that is created. This is needed for
* the Twitter handle match
* @param {String} suffixStr = "\""; // A string to suffix the anchor tag that is created. This is used if
* there is a trailing parenthesis that should not be auto-linked.
* \n\n// Return out with 'null' for matches that are
disabled (url, email, twitter), or for matches that are \n\n// invalid (false positives from the matcherRegex, which
can't use look-behinds since they are unavailable in JS).
```
return {
prefixStr: prefixStr, suffixStr: suffixStr, match: match
};
/**
* Determines if a match found has an unmatched closing parenthesis. If so, this parenthesis will be removed
* from the match itself, and appended after the generated anchor tag in `{@link #processTextNode}.` If a match may have an extra
* closing parenthesis at the end of the match because the regular expression must include parenthesis
* for URLs such as `"wikipedia.com/something_(disambiguation)"`, which should be auto-linked.
* However, an extra parenthesis will be included when the URL itself is wrapped in parenthesis, such as in the case of `"* \(wikipedia.com/something_(disambiguation)\)"`. In this case, the last closing parenthesis should not be part of
* the URL itself, and this method will return `true`. If a protocol-relative match is not included when the URL is wrapped in parenthesis, as such in the case of `"* \(wikipedia.com/something_(disambiguation)\)"`. In this case, the last closing parenthesis should not be part of
* the URL itself, and this method will return `true`.
* @private
* @param {String} matchStr The full match string from the `{@link #matcherRegex}.` Returns `true` if there is an unbalanced closing parenthesis at the end of the `matchStr`, `false` otherwise.
* @param {String} protocolUrlMatch The match URL string for a protocol match. Ex: `"http://yahoo.com"`. This is used to filter out false positives from the `{@link Autolinker#matcherRegex}.` Due to the limitations of regular
* expressions (including the missing feature of look-behinds in JS regular expressions), we cannot always
* determine the validity of a given match. This class applies a bit of additional logic to filter out any
* false positives that have been matched by the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
* `"//yahoo.com"`, but we don't want to autolink something like `"//google.com"`. Instead, this regular expression checks to see if there is a word character before the `"//"` match in order to determine if we should actually autolink a protocol-relative URL. This is needed because there is no
* negative look-behind in `{@link #matcherRegex}.` This is used to check a potential protocol-relative URL
* match, coming from the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
* `"//yahoo.com"`, but we don't want to autolink something like `"//google.com"`. Instead, this regular expression checks to see if there is a word character before the `"//"` match in order to determine if we should actually autolink a protocol-relative URL. This is needed because there is no
* negative look-behind in `{@link #matcherRegex}.` This is used to check a potential protocol-relative URL
* match, coming from the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
* `"//yahoo.com"`, but we don't want to autolink something like `"//google.com"`. Instead, this regular expression checks to see if there is a word character before the `"//"` match in order to determine if we should actually autolink a protocol-relative URL. This is needed because there is no
* negative look-behind in `{@link #matcherRegex}.` This is used to check a potential protocol-relative URL
* match, coming from the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
* `"//yahoo.com"`, but we don't want to autolink something like `"//google.com"`. Instead, this regular expression checks to see if there is a word character before the `"//"` match in order to determine if we should actually autolink a protocol-relative URL. This is needed because there is no
* negative look-behind in `{@link #matcherRegex}.` This is used to check a potential protocol-relative URL
* match, coming from the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
* `"//yahoo.com"`, but we don't want to autolink something like `"//google.com"`. Instead, this regular expression checks to see if there is a word character before the `"//"` match in order to determine if we should actually autolink a protocol-relative URL. This is needed because there is no
* negative look-behind in `{@link #matcherRegex}.` This is used to check a potential protocol-relative URL
* match, coming from the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
* `"//yahoo.com"`, but we don't want to autolink something like `"//google.com"`. Instead, this regular expression checks to see if there is a word character before the `"//"` match in order to determine if we should actually autolink a protocol-relative URL. This is needed because there is no
* negative look-behind in `{@link #matcherRegex}.` This is used to check a potential protocol-relative URL
* match, coming from the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
* `"//yahoo.com"`, but we don't want to autolink something like `"//google.com"`. Instead, this regular expression checks to see if there is a word character before the `"//"` match in order to determine if we should actually autolink a protocol-relative URL. This is needed because there is no
* negative look-behind in `{@link #matcherRegex}.` This is used to check a potential protocol-relative URL
* match, coming from the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
* `"//yahoo.com"`, but we don't want to autolink something like `"//google.com"`. Instead, this regular expression checks to see if there is a word character before the `"//"` match in order to determine if we should actually autolink a protocol-relative URL. This is needed because there is no
* negative look-behind in `{@link #matcherRegex}.` This is used to check a potential protocol-relative URL
* match, coming from the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
* `"//yahoo.com"`, but we don't want to autolink something like `"//google.com"`. Instead, this regular expression checks to see if there is a word character before the `"//"` match in order to determine if we should actually autolink a protocol-relative URL. This is needed because there is no
* negative look-behind in `{@link #matcherRegex}.` This is used to check a potential protocol-relative URL
* match, coming from the `{@link Autolinker#matcherRegex}.` A protocol-relative URL is, for example,
character (ex, a space, such as: '/a', or a letter, such as: 'a'). The match is invalid if there is a word character preceding the '/'; @return {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.

Determines if the URI scheme is a valid scheme to be autolinked. Returns 'false' if the scheme is not a valid URI scheme. Ex: `git:1.0` does not have either the '://' part, or at least one dot ('.') in it.

Determine if a protocol-relative match is invalid. This method returns 'true' if there is a protocol-relative match, and that match contains a word character before the '/' (i.e. it must contain whitespace or nothing before the '/').

Determine if a protocol-relative match is invalid. This method returns 'true' if there is a protocol-relative match, and that match contains a word character before the '/' (i.e. it must contain whitespace or nothing before the '/').

Determine if a protocol-relative URL match is invalid. This method returns 'true' if there is a protocol-relative match, and that match contains a word character before the '/' (i.e. it must contain whitespace or nothing before the '/').
**Open Source Used In MSX SD-WAN Service Pack 4.0.0**

```javascript
function( autolinker, match ) {
    console.log( "href = ", match.getAnchorHref() );
    console.log( "text = ", match.getAnchorText() );
    switch( match.getType() ) {
        case 'url' : 
            console.log( "url: ", match.getUrl() );
            
        case 'email' : 
            console.log( "email: ", match.getEmail() );
            
        case 'twitter' : 
            console.log( "twitter: ", match.getTwitterHandle() );
            
        default : 
            console.log( "unknown: ", match.getType() );
    }
}

function( autolinker, match ) {
    console.log( "href = ", match.getAnchorHref() );
    console.log( "text = ", match.getAnchorText() );
    switch( match.getType() ) {
        case 'url' : 
            console.log( "url: ", match.getUrl() );
            
        case 'email' : 
            console.log( "email: ", match.getEmail() );
            
        case 'twitter' : 
            console.log( "twitter: ", match.getTwitterHandle() );
            
        default : 
            console.log( "unknown: ", match.getType() );
    }
}
```

See the [@link Autolinker#replaceFn replaceFn](#) for more details on using the Autolinker class.
* A regular expression used to remove the `http://` or `https://` and/or the `www.` from URLs.

```
protocolRelativeRegex: /^(https?:\/\/)?(www\.)?/
```

* Will be set to `true` if the `http://` protocol has been prepended to the `@link #url`

```
protocolPrepended: @link #url * @return {String} * @property {Boolean}
```

The regular expression used to remove the protocol-relative `//` from the matched string.

### Utility Functions

#### stripUrlPrefix

```
stripUrlPrefix: function( text ) {
  return text.replace( this.urlPrefixRegex, '' );
}
```

#### stripProtocolRelativePrefix

```
stripProtocolRelativePrefix: function( text ) {
  return text.replace( this.protocolRelativeRegex, '' );
}
```

#### stripTrailingSlash

```
removeTrailingSlash: function( anchorText ) {
  if( anchorText.charAt( anchorText.length - 1 ) === '/' ) {
    anchorText = anchorText.slice( 0, -1 );
  }
  return anchorText;
}
```

### Anchor Text

```
getAnchorText: function() {
  var anchorText = this.getUrl();
  if( this.protocolRelativeMatch ) {
    anchorText = this.stripProtocolRelativePrefix( anchorText );
  }
  if( this.stripPrefix ) {
    anchorText = this.stripUrlPrefix( anchorText );
  }
  anchorText = this.removeTrailingSlash( anchorText );
  return anchorText;
}
```
Horizontal rule

Horizontal rule

Horizontal rule

Horizontal rule

Horizontal rule

Horizontal rule
Open Source Used in MSX SD-WAN Service Pack 4.0.0 20711
```javascript
state.tight = oldTight;
state.parentType = oldParentType;
state.blkIndent = oldIndent;
prevEmptyEnd = (state.line - ddLine) > 1 && state.isEmpty(state.line - 1);
state.tShift[ddLine] = oldTShift;

Item become loose if finish with empty line,
but we should filter last element, because it means list finish
If any of list item is tight, mark list as tight
if (!state.tight || prevEmptyEnd) {
  tight = false;
}

state.parser.tokenize(state, ddLine, endLine, true);

state.ddIndent = state.tShift[ddLine] + 2;
state.tShift[ddLine] = contentStart - state.bMarks[ddLine];
oldTShift = state.tShift[ddLine];
oldParentType = state.parentType;
state.blkIndent = oldIndent;

for (;;) {
  state.tokens.push({
    type: 'dd_open',
    lines: itemLines = [ nextLine, 0 ],
    children: []
  });
  state.tokens.push({
    type: 'dt_close',
    level: --state.level
  });
  content: state.getLines(dtLine, dtLine + 1, state.blkIndent, false).trim();
  dtLine = startLine;
  ddLine = nextLine;

  listTokIdx = state.tokens.length;

  state.tokens.push({
    type: 'dl_open',
    lines: listLines = [ startLine, 0 ],
    children: []
  });

  // Start list
  // Iterate list items
  //
  // One loop here, and label is needed to break out of the second one
  // /*eslint no-labels:0,block-scoped-const:0*/
  //
  // Thus, there is two loops here, and label is
  // needed to break out of the second one
  // /*eslint no-labels:0,block-scoped-const:0*/
  //
  // Define lists

  // Search '['-]'
  // returns next pos after marker on success
  // or -1 on fail
  function skipMarker(state, line) {
    var pos, marker,
        start = state.bMarks[line] + state.tShift[line];
    max = state.eMarks[line] + 1;

    if (start >= max) { return -1; }
    if (state.tShift[line] < state.blkIndent) { return false; }

    pos = state.skipSpaces(start);
    if (start === pos) { return -1; }
    marker = state.src.charCodeAt(pos);

    // require space after ":"
    if (start === marker) { return -1; }
    if (marker !== 0x7E/* ~ */ && marker !== 0x3A/* : */) { return -1; }
    pos = state.skipSpaces(start);
    if (start === pos) { return -1; }
    if (marker !== 0x20) { return false; }

    return pos;
  }

  function markTightParagraphs(state, idx) {
    var
        content, level, children,
        rows, listLines, listTokIdx,
        listStart = state.tokens[idx].type === 'paragraph_open',
        listEnd = state.tokens[idx].type === 'paragraph_close',
        listTight = true;

    if (content) {
        rows = content
            .split('
')
            .map(function (row) {
              return row.trim();
            })
            .join('
');
        listStart = false;
    }

    if (listStart) {
        state.tokens.push({
          type: 'list_open',
          lines: listLines = [ startLine, 0 ],
          level: state.level++ + 1
        });
    }

    if (listEnd) {
        state.tokens.push({
          type: 'list_close',
          level: state.level++ + 1
        });
    }

    if (listTight) {
        state.tokens.push({
          type: 'list_tight',
          level: state.level++ + 1
        });
    }

    return listTight;

  }

  // module id = 1041

  module.exports = function deflist(state, startLine, endLine, silent) {
    var contentStart,
        ddLine,
        dtLine,
        itemLines,
        listLines,
        listTokIdx,
        nextLine,
        oldIndent,
        oldDDIndent,
        oldParentType,
        oldTShift,
        oldTight,
        prevEmptyEnd,
        quiet;

    function skipDD(state, line) {
      var
          contentStart,
          ddLine,
          dtLine,
          itemLines,
          listLines,
          listTokIdx,
          nextLine,
          oldIndent,
          oldDDIndent,
          oldParentType,
          oldTShift,
          oldTight,
          prevEmptyEnd,
          quiet;

      function skipDD(state, line) {
        var
            contentStart,
            ddLine,
            dtLine,
            itemLines,
            listLines,
            listTokIdx,
            nextLine,
            oldIndent,
            oldDDIndent,
            oldParentType,
            oldTShift,
            oldTight,
            prevEmptyEnd,
            quiet;

      return skipDD(state, line);
    }

    return skipDD(state, line);
  }

  return skipDD(state, line);
}
```
state.ddIndent = oldDDIndent;

state.tokens.push({
  type: 'dd_close',
  level: --state.level
});

itemLines[1] = nextLine = state.line;

if (nextLine >= endLine) {
  break OUTER;
}

if (state.tShift[nextLine] < state.blkIndent) {
  break OUTER;
}

if (contentStart < 0) {
  break;
}

ddLine = nextLine;

if (contentStart < 0) { break; }

if (ddLine >= nextLine) {
  break;
}

if (state.isEmpty(ddLine)) {
  ddLine++;
}

if (ddLine >= endLine) {
  break;
}

if (state.tShift[nextLine] < state.blkIndent) {
  break;
}

if (contentStart = skipMarker(state, ddLine); state.isEmpty(ddLine)) {
  break;
}

if ((cached_pos = state.cacheGet(pos)) > 0) {
  break;
}

state.pos++;

state.cacheSet(pos, state.pos);

}

/**
 * Skip a single token by running all rules in validation
 *
 * @param  {Object} `state`
 * @api private
 */

function ParserInline() {
  this.ruler = new Ruler();
  for (var i = 0; i <
      rules.length; i++) {
    this.ruler.push(_rules[i][0], _rules[i][1]);
  }

  // Can be overridden with a custom
  validator
  this.validateLink = validateLink;
}

/**
 * Inline Parser class. Note that link validation is stricter
 * in
 * Remarkable than what is specified by CommonMark. If you
 * want to change this you can use a custom
 * validator.
 * `* Returns `true` if any rule reports success. `* @api private
 * *function ParserInline() { this.ruler = new Ruler();
 * for (var i = 0; i <
 * _rules.length; i++) { this.ruler.push(_rules[i][0],
 * _rules[i][1]);
 * } // Can be overridden with a custom
 * validator
 * this.validateLink = validateLink;
 * * Skip a single token by running all rules in validation
 * mode.`* Returns `true` if any rule reports success.
 * `* @api private
 * *function ParserInline.prototype.skipToken = function (state) {
 * var rules = this.ruler.getRules("*\n * var len = rules.length;
 * var pos = state.pos;
 * var i, cached_pos;
 * if ((cached_pos = state.cacheGet(pos)) > 0) {
 * state.pos = cached_pos;
 * return;
 * }
 * for (i = 0; i < len; i++) {
 * if (rules[i](state, true)) {
 * if (!state.isEmpty(pos)) {
 * state.tokens.push({
 * type: 'dd_close',
 * level: --state.level
 * });
 * itemLines[1] = nextLine = state.line;
 * if (nextLine >= endLine) {
 * break;
 * }
 * ddLine = nextLine;
 * // go to the next loop iteration:
 * // insert DD tag and repeat checking
 * if (state.isEmpty(ddLine)) {
 * break;
 * }
 * // jump line-by-line until empty one or EOF
 * if (nextLine < endLine && !state.isEmpty(nextLine)) {
 * terminatorRules = state.parser.ruler.getRules("paragraph");
 * for (i, l = terminatorRules.length;
 * i < l; i++) {
 * if (terminatorRules[i](state, nextLine, endLine, true)) {
 * return;
 * }
 * // Some tags can terminate paragraph without empty line. `*\n * terminate = false;`\n * for (i = 0, l =
 * terminatorRules.length; i < l; i++) {
 * if (terminatorRules[i](state, nextLine, endLine, true)) {
 * return;
 * }
 * // Considered a lazy continuation regardless of what's there if (`*\n * state.tShift[nextLine] - state.blkIndent > 3`) {
 * continue;
 * }
 * // Some tags can terminate paragraph without empty line. `*\n * terminate = false;`\n * for (i = 0, l =
 * terminatorRules.length; i < l; i++) {
 * if (terminatorRules[i](state, nextLine, endLine, true)) { `*\n * return;
 * }
 * // This would be a code block normally, but after paragraph
 * it's considered a lazy continuation regardless of what's there if (`*\n * state.tShift[nextLine] - state.blkIndent > 3`) {
 * continue;
 * }
 * // Some tags can terminate paragraph without empty line. `*\n * terminate = false;`\n * for (i = 0, l =
 * terminatorRules.length; i < l; i++) {
 * if (terminatorRules[i](state, nextLine, endLine, true)) {
 * return;
 * }
 * if (state.isEmpty(pos)) {
 * state.tokens.push({
 * type: 'paragraph_open',
 * tight: true;\n * lines: [ startLine, state.line 
 * level: state.level
 * ]\n * });
 * state.tokens.push({
 * type: 'paragraph_close',\n * tight: false;\n * lines: [ startLine, state.line 
 * level: state.level
 * ]\n * });
 * if (!state.isEmpty(pos)) {
 * state.tokens.push({
 * type: 'paragraph_close',\n * tight: false;\n * lines: [ startLine, state.line 
 * level: state.level
 * ]\n * });
 * }
 * }
 * StateInline = require('./node_modules/remarkable/lib/rules_block/state_inline');
 * var utils = require('./common/utils');
 * 
 * Local dependencies
 */

var Ruler = require('./ruler');
var StateInline = require('./node_modules/remarkable/lib/rules_block/state_inline');

/**
 * Inline Parser `rules`
 */

var _rules = [ [ 'text', require('./rules_inline/text') ],

[ 'escapetext', require('./rules_inline/escapetext') ],

[ 'rawtext', require('./rules_inline/rawtext') ],

[ 'backticks', require('./rules_inline/backticks') ],

[ 'del', require('./rules_inline/del') ],

[ 'ins', require('./rules_inline/ins') ],

[ 'mark', require('./rules_inline/mark') ],

[ 'emphasis', require('./rules_inline/emphasis') ],

[ 'sub', require('./rules_inline/sub') ],

[ 'sup', require('./rules_inline/sup') ],

[ 'links', require('./rules_inline/links') ],

[ 'footnote_in', require('./rules_inline/footnote_in') ],

[ 'footnote_ref', require('./rules_inline/footnote_ref') ],

[ 'autolink', require('./rules_inline/autolink') ],

[ 'htmltag', require('./rules_inline/htmltag') ],

[ 'entity', require('./rules_inline/entity') ]

];

/**
 * Blocks
 */

var BlockInline = require('./node_modules/remarkable/lib/rules_block/block_inline');

/**
 * Block rule parser
 */

function BlockParserInline() {
  this.ruler = new Ruler();
  for (var i = 0; i <
      rules.length; i++) {
    this.ruler.push(_rules[i]);
  }

  // mark paragraphs tight if needed
  if (tight)
  return true;
}

/**
 * Inline rule parser
 */

function InlineParser() {
  this.ruler = new Ruler();
  for (var i = 0; i <
      rules.length; i++) {
    this.ruler.push(_rules[i]);
  }

  // mark paragraphs tight if needed
  if (tight)
  return true;
}

/**
 * Rule parser
 */

function Parser() {
  this.ruler = new Ruler();
  for (var i = 0; i <
      rules.length; i++) {
    this.ruler.push(_rules[i]);
  }

  // mark paragraphs tight if needed
  if (tight)
  return true;
}

/**
 * MARKDOWN
 */

function Markdown() {
  this.ruler = new Ruler();
  for (var i = 0; i <
      rules.length; i++) {
    this.ruler.push(_rules[i]);
  }

  // mark paragraphs tight if needed
  if (tight)
  return true;
}

/**
 * Remarkable
 */

function Remarkable() {
  this.ruler = new Ruler();
  for (var i = 0; i <
      rules.length; i++) {
    this.ruler.push(_rules[i]);
  }

  // mark paragraphs tight if needed
  if (tight)
  return true;
}

/**
 * CommonMark
 */

function CommonMark() {
  this.ruler = new Ruler();
  for (var i = 0; i <
      rules.length; i++) {
    this.ruler.push(_rules[i]);
  }

  // mark paragraphs tight if needed
  if (tight)
  return true;
}

/**
 * BlackDown
 */

function BlackDown() {
  this.ruler = new Ruler();
  for (var i = 0; i <
      rules.length; i++) {
    this.ruler.push(_rules[i]);
  }

  // mark paragraphs tight if needed
  if (tight)
  return true;
}
* Generate tokens for the given input range.

```javascript
*\n
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
  while (state.pos < end) {\n    if (ok) { break; }\n    continue;\n  }\n
  if (state.pending) { state.pending += state.src[state.pos++]; }\n
  if (state.pending) {\n    state.pushPending();\n    continue;\n  }\n
  state.pending += state.src[state.pos++];\n}

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
  while (state.pos < end) {\n    if (ok) { break; }\n    continue;\n  }\n
  if (state.pending) { state.pending += state.src[state.pos++]; }\n
  if (state.pending) {\n    state.pushPending();\n    continue;\n  }\n
  state.pending += state.src[state.pos++];\n}
```

```javascript
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
  while (state.pos < end) {\n    if (ok) { break; }\n    continue;\n  }\n
  if (state.pending) { state.pending += state.src[state.pos++]; }\n
  if (state.pending) {\n    state.pushPending();\n    continue;\n  }\n
  state.pending += state.src[state.pos++];\n}
```

```javascript
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
  while (state.pos < end) {\n    if (ok) { break; }\n    continue;\n  }\n
  if (state.pending) { state.pending += state.src[state.pos++]; }\n
  if (state.pending) {\n    state.pushPending();\n    continue;\n  }\n
  state.pending += state.src[state.pos++];\n}
```

```javascript
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
  while (state.pos < end) {\n    if (ok) { break; }\n    continue;\n  }\n
  if (state.pending) { state.pending += state.src[state.pos++]; }\n
  if (state.pending) {\n    state.pushPending();\n    continue;\n  }\n
  state.pending += state.src[state.pos++];\n}
```

```javascript
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
  while (state.pos < end) {\n    if (ok) { break; }\n    continue;\n  }\n
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  if (state.pending) {\n    state.pushPending();\n    continue;\n  }\n
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  if (state.pending) { state.pending += state.src[state.pos++]; }\n
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  state.pending += state.src[state.pos++];\n}
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  while (state.pos < end) {\n    if (ok) { break; }\n    continue;\n  }\n
  if (state.pending) { state.pending += state.src[state.pos++]; }\n
  if (state.pending) {\n    state.pushPending();\n    continue;\n  }\n
  state.pending += state.src[state.pos++];\n}
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```javascript
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  while (state.pos < end) {\n    if (ok) { break; }\n    continue;\n  }\n
  if (state.pending) { state.pending += state.src[state.pos++]; }\n
  if (state.pending) {\n    state.pushPending();\n    continue;\n  }\n
  state.pending += state.src[state.pos++];\n}
```

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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
  while (state.pos < end) {\n    if (ok) { break; }\n    continue;\n  }\n
  if (state.pending) { state.pending += state.src[state.pos++]; }\n
  if (state.pending) {\n    state.pushPending();\n    continue;\n  }\n
  state.pending += state.src[state.pos++];\n}
```
return true;


module.exports = function autolink(state, silent) {
  var tail, linkMatch, emailMatch, url, fullUrl,
    url_schemas = require('../common/url_schemas');
  var

  normalizeLink = require('../helpers/normalize_link');

  return true;
};


module.exports = function footnote_ref(state, silent) {
  var

  return true;
};


module.exports = function footnote_inline(state, silent) {
  var

  return true;
};


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```javascript
var MUSTACHE_EXPR =
for (property in object) {
    if (Object.prototype.hasOwnProperty.call(object, property)) {
```

```
/* Shallow clone an object */
function clone(object) {
  var newObject = {};
  var property = void 0;
```

```
properties to a lookup table */
function addToSet(set, array) {
  var l = array.length;
  while (l--) {
    if (typeof
```

```
var xml = 
['xlink:href', 'xml:id', 'xlink:title', 'xml:space', 'xmlns:xlink'];
```

```
/* Add properties to a lookup table */
function addToSet(set, array) {
  var l = array.length;
  while (l--) {
    if (typeof array[l] !== 'string') {
      array[l] = array[l].toLowerCase();
    }
  }
}
```

```
var newObject = Object.prototype; // property]
  }]
  }]
```
Open Source Used In MSX SD-WAN Service Pack 4.0.0
Open Source Used In MSX SD-WAN Service Pack 4.0.0

```javascript
[].concat(_toConsumableArray(text));
ALLOWED_ATTR = []
if (USE_PROFILES.html === true)
  addToSet(ALLOWED_TAGS, html);
  addToSet(ALLOWED_ATTR, html$1);
] if (USE_PROFILES.svg === true)
  addToSet(ALLOWED_TAGS, svg);
  addToSet(ALLOWED_ATTR, svg$1);
  addToSet(ALLOWED_ATTR, xml);
] if (USE_PROFILES.svgFilters === true)
  addToSet(ALLOWED_TAGS, svgFilters);
  addToSet(ALLOWED_ATTR, svg$1);
  addToSet(ALLOWED_ATTR, xml);
] if (USE_PROFILES.mathMl === true)
  addToSet(ALLOWED_TAGS, mathMl);
  addToSet(ALLOWED_ATTR, mathMl$1);
  addToSet(ALLOWED_ATTR, xml);
]

/* Merge configuration parameters */
if (cfg.ADD_TAGS) {
  if (ALLOWED_TAGS === DEFAULT_ALLOWED_TAGS) {
    ALLOWED_TAGS = clone(ALLOWED_TAGS);
  }
  addToSet(ALLOWED_TAGS, cfg.ADD_TAGS);
}
if (cfg.ADD_ATTR) {
  if (ALLOWED_ATTR === DEFAULT_ALLOWED_ATTR) {
    ALLOWED_ATTR = clone(ALLOWED_ATTR);
  }
  addToSet(ALLOWED_ATTR, cfg.ADD_ATTR);
}
if (cfg.ADD_URI_SAFE_ATTR) {
  addToSet(URI_SAFE_ATTRIBUTES, 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(CONFIG);
}

/* 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) {
  dirty = encodeURI(dirty);
  try {
    var xhr = new XMLHttpRequest();
    xhr.responseType = 'document';
    xhr.open('GET', 'data:text/html;charset=utf-8,' + dirty, false);
    xhr.send(null);
    doc = xhr.responseText;
  } catch (err) {
    doc = xhr.responseText;
  }
}

/* Use DOMParser to workaround Firefox bug (see comment below) */
if (!doc || !doc.documentElement) {
  doc = implementation.createHTMLDocument('');
  body = doc.body;
  body.parentNode.removeChild(body.parentNode.firstChild);
  body.innerHTML = dirty;
}

/* Work on whole document or just its body */
if (ALLOWED_TAGS['#text'])
  doc = new DOMParser().parseFromString(dirty, 'text/html');

try {
  if (xhr.responseText)
    doc = new DOMParser().parseFromString(dirty, 'text/html');
} catch (err) {
  doc = new DOMParser().parseFromString(dirty, 'text/html');
}

if (!doc)
  return ElementsByTagName.call(doc, 'body').length;

if (doc || !doc.documentElement)
  doc = implementation.createHTMLDocument(body);
/**
 * _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 check whether it's a DOM node
   * @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 current node
   * @param  {Object} data extra data
   */
  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 killed, false if left alive
   */
  var _sanitizeElements = function _sanitizeElements(currentNode) {
    var content = void 0;

    /* 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]) {
        currentNode.insertAdjacentHTML('AfterEnd', currentNode.innerHTML);
      }
      _forceRemove(currentNode);
      return true;
    }

    /* Convert markup to cover jQuery behavior */
    if (SAFE_FOR_JQUERY && !currentNode.firstElementChild && (!currentNode.content || !currentNode.content.firstElementChild) && /</g.test(currentNode.textContent)) {
      DOMPurify.removed.push({ element: currentNode.cloneNode() });
      currentNode.content.replace(/</g, '&lt;');
      return false;
    }

    /* Execute a hook if present */
    _executeHook('afterSanitizeElements', currentNode, null);
    return false;
  }

  /**
   * _sanitizeAttributes
   *
   * @protect attributes
   * @protect nodeName
   * @protect removeAttribute
   * @protect setAttribute
   *
   * @param   node to sanitize
   * @return  void
   */
  var _sanitizeAttributes = function _sanitizeAttributes(currentNode) {
    var attr = void 0;
    var name = void 0;
    var value = void 0;
    var lcName = void 0;
    var idAttr = void 0;
    var attributes = void 0;
    var l = void 0;
    /* Execute a hook if present */
    _executeHook('uponSanitizeAttribute', currentNode, { tagName: currentNode.nodeName, allowedTags: ALLOWED_TAGS });
    l = attributes.length;
    /* Go backwards over attributes */
    for (l; l--;) {
      if (attributes[l] && attributes[l].nodeName) {
        /* Remove node */
        if (isClobbered(attributes[l])) {
          _forceRemove(attributes[l]);
          return true;
        }
      }
    }
    /* Execute a hook if present */
    _executeHook('afterSanitizeAttributes', currentNode, null);
    return false;
  }
ones

while (l--) {
  attr = attributes[l];
  name = attr.name;
  value = attr.value.trim();
  lcName = name.toLowerCase();

  /* Execute a hook if present */
  _executeHook('uponSanitizeAttribute', currentNode, hookEvent); // 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) {
    idAttr = attributes.id;
    attributes = Array.prototype.slice.call(attributes);
    _removeAttribute('id', currentNode);
    _removeAttribute(name, currentNode);
    if (attributes.indexOf(idAttr) > l) {
      currentNode.setAttribute('id', idAttr.value);
    }
  } else if (currentNode.nodeName === 'INPUT' && lcName === 'type' && value === 'file' &&
      (ALLOWED_ATTR[lcName] || !FORBID_ATTR[lcName])) {
    continue;
  } else {
    // This avoids a crash in Safari v9.0 with double-ids.
    // The trick is to first set the id to be empty and then to
    // remove the attribute if (name === id) {
      currentNode.setAttribute(name, "");
    } else {
      _removeAttribute(name, currentNode);
      /* Did the hooks approve of the attribute? */
      if (!hookEvent.keepAttr) {
        continue;
      }

      /* Make sure attribute cannot clobber */
      if (SANITIZE_DOM && (lcName === 'id' || lcName === 'name') && (value in document || value in formElement)) {
        continue;
      }

      /* Sanitize attribute content to be template-safe */
      if (SAFE_FOR_TEMPLATES) {
        value = value.replace(MUSTACHE_EXPR$1, ' ');
        value = value.replace(ERB_EXPR$1, ' ');
      }

      /* Allow valid data-* attributes: At least one character after "-"
       XML-compatible (https://html.spec.whatwg.org/multipage/infrastructure.html#xml-compatible
       and http://www.w3.org/TR/xml/#d0e804) We don't need to check the value; it's always URI safe. */
      if (ALLOW_DATA_ATTR && DATA_ATTR$1.test(lcName)) {
        // This attribute is safe
      } else if (ALLOW_ARIA_ATTR && ARIA_ATTR$1.test(lcName)) {
        // This attribute is safe
        /* Otherwise, check the name is permitted */
      } else if (!ALLOWED_ATTR[lcName] || FORBID_ATTR[lcName]) {
        continue;
      } else if (URI_SAFE_ATTRIBUTES[lcName]) {
        // This attribute is safe
        /* Check value is safe. First, is attr inert? If so, is safe */
      } else if (!value) {
        // Binary attributes are safe at this point /* Anything else, presume unsafe, do not add it back */
      } else {
        continue;
      }
    } /* 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: */
  } else if (ALLOW_UNKNOWND PROTOCOLS &&
      !IS_SCRIPT_OR_DATA$1.test(value.replace(ATTR_WHITESPACES$1, ""))) {
    /* This attribute is safe
      /* Check for binary attributes */
    if (!value) {
      // eslim-disable-next-line no-negated-condition
      } else if (!value) {
        /* Binary attributes are safe at this point */
      /* Anything else, presume unsafe, do not add it back */
    } else {
      continue;
    }
  }

  /* Handle invalid data-* attribute set by try-catch-ing it */
  try {
    currentNode.setAttribute(name, value);
    DOMPurify.removed.pop();
  } catch (err) {
    /* Execute a hook if present */
    _executeHook('afterSanitizeAttributes', currentNode, null);
    /* Execute a hook if present */
    _sanitizeShadowDOM();
    /* Sanitize tags and elements */
  }

  /* Execute a hook if present */
  _executeHook('uponSanitizeShadowNode', currentNode, null);

  /* Deep shadow DOM detected */
  if (shadowNode.content instanceof

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DocumentFragment) {
  sanitizeShadowDOM(shadowNode.content); /* Check attributes, sanitize if necessary
  _sanitizeAttributes(shadowNode); /* Execute a hook if present
  _executeHook('afterSanitizeShadowDOM', fragment, null); /* Public method providing core sanitation functionality
  @param {Node} dirty string or DOM node
  @param {Object} configuration object
  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) {
      return; /* Stringify, in case dirty is an object
    if (typeof dirty !== 'string' &
      !isNode(dirty)) {
      return; /* elsi
    if (typeof dirty !== 'string') {
      throw new TypeError('dirty is not a string, aborting');
    }

    /* Check we can run. Otherwise fall back or ignore
    if (_isNode(dirty)) {
      return window.toStaticHTML(dirty, null); /* Assign config vars
    if (IS_SET_CONFIG) {
      _parseConfig(cfg);
    }

    /* Clean up removed elements */
    DOMPurify.removed = [];

    if (dirty instanceof Node) {
      /* If dirty is a DOM element, append to an empty
        document to avoid elements being stripped by the parser
        * Node is already a body, use as is
        else body.appendChild(importedNode);
      }
    } else {
      /* Exit directly if we
        have nothing to do */
      if (!RETURN_DOM && !WHOLE_DOCUMENT) {
        return;
      }

      /* Initialize the document to work on */
      body = _initDocument(dirty);

      /* Check we have a DOM node from the data */
      if (!body) {
        return RETURN_DOM ? null : '';
      }

    /* Remove first element node (ours) if FORCE_BODY is set
    if (FORCE_BODY) {
      _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) {
        continue;
      }

      /* Sanitize tags and elements */
      if (_sanitizeElements(currentNode)) {
        continue;
      }

      /* Shadow DOM detected, sanitize it */
      if (currentNode.content instanceof DocumentFragment) {
        _sanitizeShadowDOM(currentNode.content);
      }

      /* Check attributes, sanitize if necessary
      _sanitizeAttributes(currentNode);

      oldNode = currentNode;
    }

    /* Return sanitized string or DOM */
    if (RETURN_DOM) {
      if (RETURN_DOM_FRAGMENT) {
        returnNode = createDocumentFragment.call(body.ownerDocument, null)
        while (body.firstChild) {
          returnNode.appendChild(body.firstChild);
        }
      } else {
        returnNode = body;
      }
      if (RETURN_DOM_IMPORT) {
        /* AdoptNode() is not used because
          internal state is not reset (e.g. the past names map of a HTMLFormElement), this is safe in
          theory but we would rather not risk another attack vector. */
        returnNode = importNode.call(body.ownerDocument, returnNode, true);
      }
    }

    /* Shadow DOCUMENT detected, sanitize it */
    if (currentNode.nodeType === 3) {
      currentNode = new DocumentFragment;
      _sanitizeShadowDOM(currentNode);
      oldNode = currentNode;
      /* Return sanitized string or DOM */
      if (RETURN_DOM) {
        returnNode = createDocumentFragment.call(body.ownerDocument, null)
        while (body.firstChild) {
          returnNode.appendChild(body.firstChild);
        }
      } else {
        returnNode = body;
      }
      if (RETURN_DOM_IMPORT) {
        /* AdoptNode() is not used because
          internal state is not reset (e.g. the past names map of a HTMLFormElement), this is safe in
          theory but we would rather not risk another attack vector. */
      }

    /* SetConfig */
    DOMPurify.setConfig = function (cfg) {
      _parseConfig(cfg);
      SET_CONFIG = true;
    }

    /* Public method to remove the configuration */
    DOMPurify.clearConfig = function () {
      CONFIG = null;
      SET_CONFIG = false;
    }

    /* AddHook */
    DOMPurify.addHook = function (entryPoint, hookFunction) {
      if (typeof hookFunction !== 'function') {
        return;
      }
      hooks[entryPoint] = hookFunction;
hooks[entryPoint] || []); }\n
  return DOMPurify;
}

// node_modules/dompurify/dist/purify.js
// module id = 1066
// module chunks = 0,"import React from
\"react\";

export default class BaseLayout extends React.Component
{

  constructor(props) {
    super(props);
    this.state = {
      loading: false,
      spec: null,
      error: null
    };
    this.specSelector = this.getSelector(specSelectors);
    this.errSelector = this.getSelector(errSelectors);
    this.oas3Selector = this.getSelector(oas3Selectors);
    this.oas3Action = this.getAction(oas3Actions);
    this.getComponent = this.getProps('component', true);
    this.getProps = this.getProps(propTypes, true);
    this.getComponent = this.getProps('component', true);
    this.render = this.render;

  }

  static propTypes = {
    errSelectors: PropTypes.object.isRequired,
    errActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    oas3Selectors: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    let {errSelectors, specSelectors, getComponent} = this.props

    const servers = specSelectors.servers()
    const schemes = specSelectors.schemes()

    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={false} />
        <Errors />
        <Row className="information-container">
          <Col mobile={12}>
            <InfoContainer/>
          </Col>
        </Row>

        {hasServers || hasSchemes || hasSecurityDefinitions
          ? (
              <div className="scheme-container">
                <Col className="schemes wrapper" mobile={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} />
          <Col mobile={12} />
          <Col mobile={12} desktop={12} >
            <Operations/>
          </Col>
        </Row>
      </div>
    )

    if(errSelectors) {
      const lastErr = errSelectors.lastError()
      const lastErrMsg = lastErr ? lastErr.get("message") : ""
this.state.value
    if ( enumValue ) {
      const Select = getComponent("Select")
      return (<Select
          className={ errors.length ? "invalid" : ""}
          title={ errors.length ? errors : ""}
          multiple={ true }
          value={ value }
          disabled={ disabled }
          allowedValues={ enumValue }
          allowEmptyValue={ [ required ] }
          onChange={ this.onEnumChange } />
        )
      return (<div className="json-schema-array">
          { !value.count || value.count() < 1 ? null :
            value.map( (item,i) => {
              let schema = Object.assign( {},
                itemSchema )
              if ( errors.length ) {
                let err = errors.filter( err => err.index === i )
                if ( err.length ) errors = [ err[0].error + i ]
              }
              return (<div key={i} className="json-schema-form-item">
                <JsonSchemaForm 
                  fn={fn}
                  getComponent={getComponent}
                  value={item}
                  onChange={(val) => this.onItemChange(val, i)}
                  schema={schema}
                  disabled={disabled}
              />
              { !disabled ? (<Button
                        className="btn btn-sm json-schema-form-item-remove"
                        onClick={()=> this.removeItem(i)}
                      > - </Button>) : null }
            </div>)
          }).toArray()
        }
        { !disabled ? (<Button
                        className={`btn btn-sm json-schema-form-item-add.${errors.length ? "invalid" : null}`}
                        onClick={this.addItem}
                      >
                        Add item
                      </Button>) : null }
      )
    }
  )
}

export class JsonSchema_boolean extends Component {
  static propTypes = JsonSchemaPropShape
  static defaultProps = JsonSchemaDefaultProps

  onEnumChange = (val) => this.props.onChange(val)
  render(){
    let { getComponent, value, errors, schema, required, disabled } = this.props
    errors = errors.toJS ? errors.toJS() : []

    const Select = getComponent("Select")

    return (<Select className={ errors.length ? "invalid" : ""}
                    title={ errors.length ? errors : ""}
                    value={ String(value) }
                    disabled={disabled}
                    allowedValues={ fromJS(schema.enum || ["true", "false"]) }
                    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()
}

// WEBPACK FOOTER
// ./src/core/json-schema-components.jsx
call a class as a function("; } )

function _possibleConstructorReturn(self, call) { if (!self) { throw new
ReferenceError("this hasn't been initialised - super- construct..."), self); } return call &&
(topef call !== function)? call : self; }

function _inherits(subClass, superClass) { if (typeof
superClass !== function && superClass !== null) { throw new TypeError("Super expression must..."),
null); } subClass.prototype = Object.create(superClass &&
superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true, configurable: true, }, if (superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : 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) {
                        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) {
                        if (event.key === 'Enter') {
                            _this.forceNotify(event);
                        }
                        // Invoke original onKeyDown if present
                        if (onKeyDown) {
                            onKeyDown(event);
                        }
                    };

                    _this.onBlur = function (event) {
                        // Invoke original onBlur if present
                        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, _lodash2.default)(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;
                                _this.doNotify(event);
                            };

                            _this.isDebouncing = false;
                            return this;
                        }
                        return _createClass(DebounceInput, { ["key": 
                        'componentWillMount'], ["value": function componentWillMount() { 
                        this.createNotifier(this.props.debounceTimeout);
                    }
                    }];

                    _key: 'componentWillReceiveProps', ["value": function componentWillReceiveProps(_ref) {
                        var var value = _ref.value,
                        debounceTimeout = _ref.debounceTimeout;
                    }];

                    _key: 'componentWillUnmount', ["value": function componentWillUnmount() { 
                        this.createNotifier(this.props.debounceTimeout);
                    }];

                    _key: 'render', ["value": function render() {
                        var _props = this.props,
                        _element = _props.
                        _onChange = _props.onChange,
                        _value = _props.value,
                        _minLength = _props.minLength,
                        _debounceTimeout = _props.debounceTimeout,
                        _forceNotifyByEnter = _props.forceNotifyByEnter,
                        _forceNotifyOnBlur = _props.forceNotifyOnBlur,
                        _onKeyDown = _props.onKeyDown,
                        _onBlur = _props.onBlur,
                        _inputRef = _props.inputRef,
                        _props = _objectWithoutProperties(_props, ['element', 'onChange', 'value', 'minLength', 'debounceTimeout',
                            'forceNotifyByEnter', 'forceNotifyOnBlur', 'onKeyDown', 'onBlur', 'inputRef']);

                        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',
  onKeyDown: undefined,
  onBlur: undefined,
  value: undefined,
  minLength: 0,
  debounceTimeout: 100,
  forceNotifyByEnter: true,
  forceNotifyOnBlur: true,
  inputRef: undefined
};

DebounceInput = React.PureComponent;

DebounceInput.defaultProps = {
  element: 'input',
  type: 'text',
  onKeyDown: undefined,
  onBlur: undefined,
  value: undefined,
  minLength: 0,
  debounceTimeout: 100,
  forceNotifyByEnter: true,
  forceNotifyOnBlur: true,
  inputRef: undefined
};

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حوازمه ذیلی گرفته‌اند و به شکل زیر نمایش گردیده است:

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* **lodash**


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typeof value == 'object';
}

/**
 * Checks if `value` is classified as a `Symbol` primitive or object.
 *
 *
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a symbol, else `false`.
 * @example
 *
 * _.isSymbol(Symbol.iterator);
 * // => true
 *
 * _.isSymbol(Symbol.for('capitalize'));
 * // => true
 *
 * _.isSymbol(navigator.appName);
 * // => false
 */
function isSymbol(value) {
  return typeof value == 'symbol';
}

/**
 * Checks if `value` is an object-like value.
 *
 * @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);
 * // => true
 *
 * _.isObjectLike(navigator.userAgent);
 * // => true
 */
function isObjectLike(value) {
  return !!value &&
      (typeof value == 'object' || typeof value == 'function');
}

/**
 * Checks if `value` is object-like. A value is object-like if it's not `null`
 * and has a `typeof` result of "object".
 *
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is object-like, else `false`.
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 *
 * _.isObjectLike(_.noop);
 * // => true
 */
function isObjectLike(value) {
  return !!value &&
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}
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* @description Recursive object extending
* @author Viacheslav Lotsmanov <lotsmanov89@gmail.com>
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* Copyright(c) 2015 Douglas Christopher Wilson
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* */
* repeat-string <https://github.com/jonschlinkert/repeat-string>
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*/
/*!
* Autolinker.js
* 0.15.3
*
* Copyright(c) 2015 Gregory Jacobs <greg@greg-jacobs.com>
*
* https://github.com/gregjacob/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

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/*! normalize.css v7.0.0 | MIT License | github.com/necolas/normalize.css */

---

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AA7wC, EAA66rC, KAAApd, aAAAmiB, EACG, MAAarxD, KATH, GAaAuxD, EAA8, SAAA3x3D, GACA, IAAAl0D, EAAr+D, EAAAAkx, GACAb, EAAA, WAoCA, IANiaC, IAANyD, EAA8h8B, EAAAmx, GACAc, EAAAA, GAAPx, EAAAxqC, GACA24D, EAA

EAAChD, EAAA0yD, GACA, IAIA72D, EAAAA0D, EAA0F, EIAAnCt, EAAAgiC, EAAAE, EAAAF, GA

EAAAE, KACAI2D, EAAeaw2D, EAAAA2x2D, QACAiiB, EAAAAuxC, EAAAXvC, OAA0xC, EAAAEH, EAAAG, OAAE, IAAAnCt, GACAtC, IACa, GAAApC, EAAA0xC, IAAC, EAA3x3C, GACAa, EAAAA0x8C, GACA, IAAAnCt, EAA3pB, EAAAYD, GAAex2D, KAAAG, QACA3D, EAAAA2pB, EAAAlmB, GACAuz2D, IACAA, EAAAA, AOCAC, GAAA92D, IAAIA62D, EAAAAtxC, QACAD, EAAAA3gB, EAAAy, BACWysD, EAAAEF, EAAA2rD, IACXosD, EAAA9yD, KAAA0B, EAAAEK, EAAAIIB, GACWjjB, EAAA1lC, IACFsB, EAAAI7B, GACF, MAAaQb, GA

CPkYD, IAAA, GAAAE, EAAAlI, OACA9xC, EAAAAxqB, KAGA8+C, EAAA1C1, OAAAlA, F, GAAAl0w, EAAAw3C, EAA

AAzlD, MACA0nB, EAAAAkx, MACIxC, EAAAixC, IAIAEAD, ICIAAC, IAAAIA1, IAIAAAHH, AAAEE, AAAIA72D, EAAAw2D, EAAAx2D, QAIAilB, EAAAuxC, EAAAvxC, OAAAlxC, EAAAH, EAAAG, OAEA, ICARtC, GACAg, ICACgtC, IAIA, GPA8, EAAA, SAAA99xC, GACAowC, EAAA3rD, KAAAID, EAAAwC, WACA, IAAEaV, EAAAEa2pB, EAAAlAnB, EAAFA, kb, EAAA88hB, EAAAmx, GACAY, EAAEAC, EAAAhaC, GAAea, GAAaC+xC, IAAIAC3D, EAA81D, EAAA, WACAG, EACAD7qD, EAAAEgC, KAK6, qBAAA33D, EAAE88hB, IACSe, EAAAp0B, EAAAl2D, sBACT7C, GAAAmpB, E, UAAA, R, OAAAI, KACV+kB, EAAAAjnB, EAAAlinB, YAAAnB, OACTqjB, EAAAriB, MAAA, 8BAAA1C, KAAI8hB, EAA

A0xC, GAAAhB, GAAAsB, EAAAhC, GAAA, KAKCA, EAAAsyC, QAAA30D, EACLw0D, GAAAl3D, EAAAASE, EEAA, MAAAE9E, EAAAIhH, KAAggwdD, EAAA, SAAAhC, GACAa, WAAAAl0xC, IAIAAAA, C, EAAxkC, IAAAAlyC, EAAAxkC, IAAAAnyD, QAIAazgD, EAAA1A, SAAA3x3C, GACACowC, EAAA3rD, KAAAlE, WACA, IAAAn0B, EAAAssC, ECA7qD, EAACgC, KAAAn, mBAAnY, IACAeO, EAAAp0B, EAAAlmD, qBACLtC, GAA


AQcAysD, EAAAAf, EAAAl5yD, IACAmYD, EAAA, WACA, IAIAAmC, GAuUB, GAAtC, EAAAnqC, IAAA, GACBvB, IACAxG, EAAA9yD, KAAAnM, EAAA0B, EAAAn02D, EAAAC, EAAA1Ar2D, EAAAl1dE, EAAAIA, IACs, MAAnjzD, GACT6yD, EAAAAr5D, KAAAny5D, EAAAAjzD, OAAIAygB, EAAAAnxC, GAAAnjzD, EACA8hB, EAAAnqC, GAAA, EAAAnC, EAAA/wC, GAAA, IAEA, MAAAnqB, GACH6yD, EAAAnr5D, MAAbu5D, GAAAtC, EAAAnqC, IAAA, GAAqC, IAAAnA, GAAAbY9D, MAAK3coxD, IAIAEF, EAAA, SAAAAGC, GACAxC, EAAAzD, KAAAl4D, EAAAmJ, UAmJ

MACA3hD, EAAE2J2D, KAAAl0P, MACA, IAAiC6D, EAAAl2d, EAAA02D, EAAA5D, KAAA

AAA2D, EAAAl2D, EAAA55D, KAAA, IACK, MAAAmK, GAClyvD, EAAAl5D, KAAAlP, KAAAmK, MAIAktD, EAAA, SAAA4C, GACAj6D, KAAAO4D, MACA14D, KAAAO5D, QAAA30D, EACA, EEAAl6D, GAAAc4D, GAAAc7D, KAAAO6D, IAAAA, KAEA75D, KAAAO2D, QAAIA5D2, EACAA, EEAAl5D, GAAA, CAAAl5D, KAAAlY4D1, IAAIAAI3D, UAAAnB, EAAA, IAIAAA, CAAA+3D, EAAAl12D, WAAA8xD, KAAA, SAAA6G, EAAAC, GACA, IA

AAAAB, EAAAAxC, EAAAnqC, EAAA33D, KAAAn4D, IOAA, ONAAa, EAAAF, GAAa, mBAAAAsB, KACApB, EAA

AE, KAAAn, mBAAnB, KACrB, EAAA, GAuG, OAAAG, EAAAn7qD, EAAAn4D, YAAl0lD, EACAA, EEAAl04D, GAA

A9vD, KAAAnwd, GACA94D, KAAAO5D, IAIA15D, KAAAO5D, GAAAn9wD, KAAAnwd, GACA94D, KAAAl6D4, IAAN, EAAAn+4D, MAA, GACA84D, EAAAxC, SAGA4yC, MAAA, SAAAD, GACA, OAAAn6D, KAAAnqZD, UAA

AtuD, EAAAn0D, MAGA5C, EAAA, WACA, IAAAhC, EAAA, IAAAn6C, EACAr3D, KAAAwnB, UACAxnB, KA

AsC, QAIAqB, EAAAn2D, EAAAvyC, EAAA, GACAxnB, KAAAAnB, OAAAl5J, EAAAl2D, EAAApyC, EAAA, IA

EAsswC, EAAAnjwD, EAAAuyB, EAAA, SAAAnB, GACA, OAAAa, IAAA8wD, GAAAn9wD, IAAAnqD, EACA, IAA

AAD, EAAAnpD, GACAmwD, EAAAnwD, KAAVid, IAAAU, EAAA, EAAA, EAAASB, EAAAAbB, EAAAnQ, GAAAG+ZD, GAA07D9D, QAAA4D, IAC1D3D, EAAAIA, AAAIAAA, CAAA+3D, EAArMA, WAsMA3D, EAAAIA, AAAIAA, CATMA, WAmAs3D, EAAAl65D, EAAA, YAGA0D, IAIAA, EAAAZ, EAAAJQ, GAAAG+3D, EAA1MA, WAM55wC, OAASA, SAAAlkC, GACA, IAAAI4I, EAAAI2B, MAGA, OADAn0B, EAAADD, ECNAAgyc, QACAtCg, GACAl4E, EAAAn7yC, WAGA5Jb, IAIAA, EAAAZ, EAAAdQ, GAA66jB, IAIAAkC, GAAAnA, WAAqN71D, QAAA, SAAAnbH, GACA, OAAAn6C, EAAAvC, GAAAJoB, OAAAnw3D, EAAAS, EAAAl4D, KAAAnyd, MAGA7Z, IAIAAY, EAAAZ, EAAAQ, IA
Open Source Used in MSX SD-WAN Service Pack 4.0.0
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Open Source Used In MSX SD-WAN Service Pack 4.0.0

20883
require('inherits');

var Readable = require('./_stream_readable');
var Writable = require('./_stream_writable');

util.inherits(Duplex, Readable);

{
  var keys = objectKeys(Writable.prototype);
  for (var v = 0; v < keys.length; v++) {
    var method = keys[v];
    if (!!Duplex.prototype[method]) Readable.prototype[method] = Writable.prototype[method];
  }
}

function Duplex(options) {
  if (!(this instanceof Duplex)) return new Duplex(options);

  Readable.call(this, options);
  Writable.call(this, options); // avoid scope creep, the keys array can then be collected
  if (options && options.readable === false) this.readable = false;
  if (options && options.writable === false) this.writable = false;
  if (options && options.allowHalfOpen === false) this.allowHalfOpen = false;
  if (this.allowHalfOpen) this.once('end', onend);

  Object.defineProperty(Duplex.prototype, 'writableHighWaterMark', {
    enumerable: false,
    get: function () {
      return this._writableState.highWaterMark;
    }
  });

  this.allowHalfOpen = true;
  if (options && options.allowHalfOpen === false) this.allowHalfOpen = false;

  this.once('end', onend);

  this.end(function () {
    onend();
    this.push(null);
    this.end();
  });
}

function onend() {
  if (this.allowHalfOpen || this._writableState.ended) return;

  this.end();
  pna.nextTick(onEndNT, this);
}

function onEndNT(self) {
  self.end();
}

Duplex.prototype._destroy = function (err, cb) {
  this.push(null);
  this.end();

  pna.nextTick(cb, err);
};

Object.defineProperty(Duplex.prototype, 'destroyed', {
  get: function () {
    if (this._readableState === undefined || this._writableState === undefined) {
      return false;
    }
    return this._readableState.destroyed && this._writableState.destroyed;
  },
  set: function (value) {
    // we ignore the value if the stream has not been initialized yet
    if (this._readableState === undefined || this._writableState === undefined) {
      return;
    }

    // backward compatibility, the user is explicitly managing destroyed
    this._readableState.destroyed = value;
    this._writableState.destroyed = value;
  }
});

module.exports = function (val) {
  return (val !== void 0) && (val !== null);
};

var toInteger = require('./to-integer')

  , max = Math.max;

module.exports = function (value) {
  return max(0, toInteger(value));
};

IObject = require('./_iobject');
var defined = require('./_defined');
module.exports = function (it) {
  return IObject(defined(it));
};

module.exports = 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;
};

require('./_global').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) require('./_is-object.js')

  require('./_fails.js')

  require('./_uid')('src');

  require('./_core').inspectSource = function (it) {
    return $toString.call(it);
  };
easier for testing purposes, we make
   // the validation flag non-enumerable (where possible, which should not
   // 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); // self and source are DEV only properties.
    }
  }

  return element;
};

/**
 * Create and return a new ReactElement of the given type.
 */
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;
    source = 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;
  }

  // Resolve default props
  if (type && type.defaultProps) {
    var defaultProps = type.defaultProps;
    for (propName in defaultProps) {
      if (props[propName] === undefined) {
        props[propName] = defaultProps[propName];
      }
    }
  }
  if (process.env.NODE_ENV !== 'production') {
    if (key || ref) {
      if (typeof props.$$typeof === 'undefined' || props.$$typeof !== REACT_ELEMENT_TYPE) {
        var displayName = typeof type === 'function' ? type.displayName || type.name || 'Unknown': type
        if (key || ref) {
          defineKeyPropWarningGetter(props, displayName);
        }
        if (typeof props.$$typeof === 'undefined' || props.$$typeof !== REACT_ELEMENT_TYPE) {
          var displayType = type.displayName || 'function';
          if (process.env.NODE_ENV !== 'production') {
            if (key || ref) {
              defineFunctionWarningGetter(props, displayName);
            }
          }
        }
      }
    }
  }
  return ReactElement(type, key, ref, self, source, ReactCurrentOwner.current, props);
};

/**
 * Clone and return a new ReactElement using element as the starting point.
 */
ReactElement.cloneAndReplaceKey = function (oldElement, newKey) {
  var newElement = ReactElement(oldElement.type, newKey, oldElement._self, oldElement._source, oldElement._owner, oldElement.props);
  return newElement;
};

/**
 * Clone and return a new ReactElement using element as the starting point.
 */
ReactElement.cloneElement = function (element, config, children) {
  var propName;

  // Original props are copied
  var props = _assign({}, element.props);

  // Reserved names 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
  // transpiler, and the original source is probably a better indicator of
  // true owner.
  var source = element._source;
  // Owner will be preserved, unless ref is overridden
  var owner = element._owner;
  if (config !== null) {
    if (hasValidRef(config)) {
      // Silently steal the ref from the parent
      ref = config.ref;
      owner = ReactCurrentOwner.current;
    }
  }
  return ReactElement(type, key, ref, self, source, ReactCurrentOwner.current, props);
};
key = " + config.key;
  // Remaining properties override existing props
  var defaultProps =
    (element.type & & element.type.defaultProps)
      ? element.type.defaultProps
      : undefined
    for (propName in config) {
      if (hasOwnProperty.call(config, propName)) {
        props[propName] = defaultProps[propName];
      } else {
        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];
      }
      props.children = childArray;
    } // Verify the object is a ReactElement
    return ReactElement(element.type, key, ref, self,
        source, owner, props);
  }

  // Children can be more than one
  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;
  } // Verify the object is a ReactElement
  return ReactElement(element.type, key, ref, self,
      source, owner, props);

  // Verify the object is a valid component
  return ReactElement.isValidElement = function (object) {
    return typeof object === 'object' && object !== null && object.$$typeof === REACT_ELEMENT_TYPE;
  }

  module.exports = ReactElement;

  // WEBPACK FOOTER
  // ./node_modules/react/lib/ReactElement.js
  // module id = 32
  // module chunks = 0

  // shim for using process in browser
  var process = module.exports = {};

  // cached from whatever global is present so that test runners that
  // stub it in don't break things.  But we need to wrap it in a try catch in case it isn't
  // 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) {
      cachedSetTimeout = defaultSetTimout;
    }
    try {
      if (typeof clearTimeout === 'function') {
        cachedClearTimeout = clearTimeout;
      } else {
        cachedClearTimeout = defaultClearTimeout;
      }
    } catch (e) {
      cachedClearTimeout = defaultClearTimeout;
    }
  })()

  function runTimeout(fun) {
    if (cachedSetTimeout === setTimeout) {
      //normal enviroment in sane situations
      return setTimeout(fun, 0);
    }
    // if setTimeout wasn't available but was latter defined
    if (cachedSetTimeout === defaultSetTimeout)
      return defaultSetTimeout(fun, 0);
    // normal enviroments in sane situations
    return setTimout(fun, 0);
  }

  function runClearTimeout(marker) {
    if (cachedClearTimeout === clearTimeout) {
      //normal enviroment in sane situations
      return clearTimeout(marker);
    }
    // if clearTimeout wasn't available but was latter defined
    if (cachedClearTimeout === defaultClearTimeout)
      return defaultClearTimeout(marker);
    // normal enviroments in sane situations
    return clearTimeout(marker);
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

function cleanUpNextTick() {
  if (draining || !currentQueue) {
    return;
  }
  if (currentQueue.length) {
    queue = currentQueue.concat(queue);
  } else {
    queueIndex = -1;
  }
  if (queue.length) {
    drainQueue();
  } else {
    var len = queue.length;
    while(len-- > 0) {
      if (currentQueue = queue; queue = [];
      queueIndex = -1;
      len = queue.length;
    }
  }
}

var queue = [];
var draining = false;
var currentQueue;
var queueIndex = -1;

function runTimeout(func) {
  runCore.call(this, func);
}

function runCore(func, context) {
  if (this === func) {
    return func();
  }
}

function runCore(func) {
  if (context === void 0) {
    return func();
  }
}

function Item(fun, array) {
  this.fun = fun;
  this.array = array;
}

Item.prototype.run = function () {
  if (typeof this !== 'function') {
    throw new TypeError('expected 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 = null;
process.prependOnceListener = null;
process.listeners = function () {
  return [];
}

process.binding = function () {
  throw new Error('process.binding is not supported');
};

process.umask = function () { return 0; }

process.cwd = function () { return '/'; }

process.chdir = function () {
  throw new Error('process.chdir is not supported');
};

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) {
    runCore.call(this, queue[0].fun, queue[0].array);
  }
}

// v8 likes predictable objects
function isValue(value) {
  return (typeof value === 'undefined') || (value === null);
}

function isObject(subject) {
  return (typeof subject === 'object') && (subject !== null);
}

function toArray(sequence) {
  if (Array.isArray(sequence)) return sequence;
  else if (isNothing(sequence)) return [];

  return [ sequence ];
}

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) {
  var result = '', cycle;

  for (cycle = 0; cycle < count; cycle += 1) {
    result += string;
  }

  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;
module.exports.parseArray     = parseArray;
module.exports.isString       = isString;
module.exports.isNothing      = isNothing;
module.exports.isObject       = isObject;
module.exports.parseObject    = parseObject;
module.exports.parseString    = parseString;
module.exports.parseList      = parseList;
module.exports.parseArray     = parseArray;
module.exports.stringify      = stringify;
module.exports.isBoolean      = isBoolean;
module.exports.isNumber      = isNumber;
module.exports.isDate        = isDate;
module.exports.isRegExp      = isRegExp;
module.exports.isFunction    = isFunction;
module.exports.isArray       = isArray;
module.exports.isString      = isString;
module.exports.isObject      = isObject;
module.exports.isNull        = isNull;
module.exports.isSymbol      = isSymbol;
module.exports.isError       = isError;
module.exports.isBuffer      = isBuffer;
module.exports.isMap         = isMap;
module.exports.isSet         = isSet;
module.exports.isRegExp      = isRegExp;
module.exports.isDate        = isDate;
module.exports.isObject      = isObject;
module.exports.isString      = isString;
module.exports.isObject      = isObject;
module.exports.isNothing      = isNothing;
module.exports.isObject      = isObject;
module.exports.isString      = isString;
module.exports.isObject      = isObject;
module.exports.isString      = isString;
module.exports.isObject      = isObject;
module.exports.isString      = isString;
module.exports.isObject      = isObject;
module.exports.isString      = isString;
module.exports.isObject      = isObject;
module.exports.isString      = isString;
module.exports.isObject      = isObject;
module.exports.isString      = isString;
module.exports.isObject      = isObject;
module.exports.isString      = isString;
module.exports.isObject      = isObject;
module.exports.isString      = isString;
versions.

// https://bugs.chromium.org/p/v8/issues/detail?id=4118
var test1 = new String('abc');

// https://bugs.chromium.org/p/v8/issues/detail?id=3056
var test2 = {};

// https://bugs.chromium.org/p/v8/issues/detail?id=3056
var test3 = {};

if (typeof Symbol === 'undefined') {
  return false;
}

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`Object.prototype.toString.call(o)`

```
function YAMLException(reason, mark) {
  // Super constructor
  Error.call(this);

  this.name = 'YAMLException';
  this.reason = reason;
  this.mark = mark;
  this.message = (this.reason || '(unknown reason)') + (this.mark ? ' ' + this.mark.toString() : '');

  // Include stack trace in error object
  if (Error.captureStackTrace) {
    // Chrome and NodeJS
    Error.captureStackTrace(this, this.constructor);
  } else {
    // FF, IE 10+ and Safari 6+. Fallback for others
    this.stack = (new Error()).stack || '';
  }

  module.exports = this;
}
```

```
function YAMLException.prototype.constructor = YAMLException;
```

```

// Inherit from Error
YAMLException.prototype = Object.create(Error.prototype);
```

```javascript
module.exports = new Schema({
  include: [
    require('../type/timestamp'),
    require('../type/merge')
  ],
  implicit: [
    require('../type/binary'),
    require('../type/omap'),
    require('../type/pairs'),
    require('../type/set')
  ]
});
```
function reactProdInvariant(code) {
  var argCount = arguments.length - 1;
  var message = 'Minified React error ' + code + ' from one of the libraries in yourReactProdInvariant\n  throw error;\n}module.exports = reactProdInvariant;
See: https://bugzilla.mozilla.org/show_bug.cgi?id=695438. *n * - Chrome 9-10 is missing the `TypedArray.prototype.subarray` function.

- IE10 has a broken `TypedArray.prototype.subarray` function which returns arrays of an incorrect length in some situations.

We detect these buggy browsers and set `Buffer.TYPED_ARRAY_SUPPORT` to `false` so they get the Object implementation, which is slower but behaves correctly.

Export `kMaxLength` after typed array support is determined.

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- We detect these buggy browsers and set `Buffer.TYPED_ARRAY_SUPPORT` to `false` so they get the Object implementation, which is slower but behaves correctly.
utf8ToBytes(string).length

const case 'ucs2':

const case 'utf16le':

const case 'utf-16le':

return len * 2

let case 'hex':

return len >>> 0

return base64ToBytes(string).length

default:

if (loweredCase) return utf8ToBytes(string).length

// assume utf8

encoding = ('' +

encoding).toLowerCase()

loweredCase = true

}

}

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 ''

}

if (end === undefined || end > this.length) {

end = this.length

} // Force coersion to uint32. This will also coerce falsey/NaN values to 0.

end >>>= 0

start >>>= 0

if (end <= start) {

return ''

} // (encoding) encoding = 'utf8' while (true) {

case 'hex':

return hexSlice(this, start, end)

case 'utf8':

return utf8Slice(this, start, end)

case 'ascii':

return asciiSlice(this, start, end)

case 'latin1':

return latin1Slice(this, start, end)

case 'base64':

return base64Slice(this, start, end)

case 'ucs2':

return ucs2Slice(this, start, end)

return utf16leSlice(this, start, end)

default:

if (loweredCase) throw new TypeError('Unknown encoding: ' + encoding)

encoding = (encoding + ").toLowerCase()"

loweredCase = true

}

}

function swap (b, n, m)

{

var i = b[n]

b[n] = b[m]

b[m] = i

}

Buffer.prototype._isBuffer = true

function swap (b, n, m)

{

var i = b[n]

b[n] = b[m]

b[m] = i

}

Buffer.prototype.toString = function toString () {

var length = this.length | 0

if (length === 0) return ''

// Force coersion to uint32. This will also coerce falsey/NaN values to 0.

if (start > this.length) {

return ''

}

if (end === undefined || end > this.length) {

end = this.length

}

if (end <= 0) {

return ''

}

if (!encoding) encoding = 'utf8'

while (true) {

switch (encoding) {

case 'ascii':

return asciiSlice(this, start, end)

case 'latin1':

return latin1Slice(this, start, end)

case 'base64':

return base64Slice(this, start, end)

case 'ucs2':

return ucs2Slice(this, start, end)

return utf16leSlice(this, start, end)

default:

if (loweredCase) throw new TypeError('Unknown encoding: ' + encoding)

encoding = (encoding + ").toLowerCase()"

loweredCase = true

}

}

Buffer.prototype.compare = function compare (target, start, end, thisStart, thisEnd) {

if (!Buffer.isBuffer(target)) {

throw new TypeError('Argument must be a Buffer')

}

if (start === undefined) {

start = 0

}

if (end === undefined) {

end = target.length

}

var x = thisCopy[i]

var y = targetCopy[i]

break

}

} // Finds either the first index of 'val' in 'buffer' at offset <= 'byteOffset' OR the last index of 'val' in 'buffer' at offset <= 'byteOffset'.

Arguments:/n

- buffer - a Buffer to search

- val - a string, Buffer, or number

- byteOffset - an index into 'buffer'; will be clamped to an int32

// encoding - an
offset = offset | 0
if (isFinite(length)) {
  length = length | 0
  if (encoding === undefined) encoding = 'utf8'
} else {
  encoding = length | 0
  length = undefined
} // legacy write(string, encoding, offset, length) - remove in v0.13
}

if (isFinite(length)) {
  length = length | 0
  if (encoding === undefined) encoding = 'utf8'
} else {
  encoding = length
  length = undefined
}

throw new RangeError('Attempt to write outside buffer bounds')
}

var remaining = this.length - offset
if (length === undefined || length > remaining) length = 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':
    case 'utf-8':
      return utf8Write(this, string, offset, length)

    case 'ascii':
      return asciiWrite(this, string, offset, length)

    case 'latin1':
    case 'binary':
      return latin1Write(this, string, offset, length)

    case 'base64':
      return base64Write(this, string, offset, length)

    case 'ucs2':
    case 'ucs-2':
    case 'utf16le':
    case 'utf-16le':
      return ucs2Write(this, string, offset, length)

    default:
      if (loweredCase) throw new TypeError('Unknown encoding: ' + encoding)
      encoding = ('' + encoding).toLowerCase()
      loweredCase = true
  }
}

return base64

Warning: maxLength not taken into account in base64Write

return base64Write(this, string, offset, length)

return ucs2Write(this, string, offset, length)

return latin1Write(this, string, offset, length)

return base64

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 codePoint = null
    var bytesPerSequence = (firstByte > 0xEF) ? 4 : (firstByte > 0xDF) ? 3 : (firstByte > 0xBF) ? 2 : 1
    if (i + bytesPerSequence <= end) {
      var secondByte, thirdByte, fourthByte, tempCodePoint
      switch (bytesPerSequence) {
        case 1:
          if (firstByte < 0x80) {
            codePoint = firstByte
          }
          break
        case 2:
          secondByte = buf[i + 1]
          if ((secondByte & 0xC0) === 0x80) {
            tempCodePoint = (firstByte & 0x1F) << 0x6 | (secondByte & 0x3F)
            if (tempCodePoint > 0x7F) {
              codePoint = tempCodePoint
            }
          }
          break
        case 3:
          secondByte = buf[i + 1]
          thirdByte = buf[i + 2]
          if (firstByte > 0xBF) {
            if (secondByte & 0xC0) {
              tempCodePoint = (firstByte & 0xF) << 0x12 | (secondByte & 0x3F) << 0xC | (thirdByte & 0x3F)
              if (tempCodePoint > 0xFFF) {
                codePoint = tempCodePoint
              }
            }
          }
          break
        case 4:
          secondByte = buf[i + 1]
          thirdByte = buf[i + 2]
          fourthByte = buf[i + 3]
          if (fourthByte > 0xBF) {
            if (secondByte & 0xC0) {
              tempCodePoint = (firstByte & 0xF) << 0x12 | (secondByte & 0x3F) << 0xC | (thirdByte & 0x3F) << 0x6
                if (tempCodePoint > 0xFF) {
                  codePoint = tempCodePoint
                }
            }
          }
      }
    }
    if (codePoint === null) {
      // we did not generate a valid codePoint so insert null
      res.push(codePoint = null)
    } else if (codePoint > 0xFFFF) {
      // we encode to utf16 (surrogate pair dance)
      codePoint = 0x10000 + (codePoint - 0x10000) & 0xFFFF
      var i += bytesPerSequence
      res.push(codePoint)
    } else {
      res.push(codePoint)
    }
  }

  return decodeCodePointsArray(res)
}

var MAX_ARGUMENTS_LENGTH = 0x1000

function decodeCodePointsArray (codePoints) {
  var len = codePoints.length
  var res = '
  for (var i = start; i < end; ++i) {
    res += String.fromCharCode(codePoints[i])
  }

  return res
}

MAX_ARGUMENTS_LENGTH

return String.fromCharCode.apply(String, codePoints)
// avoid extra slice('/n') // Decode in chunks to avoid V8 call stack size exceeded:

var res = '
  for (var i = start; i < end; ++i) {
    res += String.fromCharCode(i)
  }

  return res
}

MAX_ARGUMENTS_LENGTH

return String.fromCharCode.apply(String, codePoints)
// replace char (U+FFE0) and advance only 1 byte

var codePoint = 0x10000

res.push(codePoint) > 0 & 0x3F) | 0xD800) & 0x3F & 0xFF

res.push(codePoint) i += bytesPerSequence

res.push(codePoint)

i += bytesPerSequence

bufferPoints(Array(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

MAX_ARGUMENTS_LENGTH = 0x1000

function decodeCodePointsArray (codePoints) {
  var len = codePoints.length
  if (len <= MAX_ARGUMENTS_LENGTH) {
    return String.fromCharCode.apply(String, codePoints)
  }

  var res = '
  for (var i = start; i < end; ++i) {
    res += String.fromCharCode(i)
  }

  return res
}
end = len
var out = "\nfor (var i = start; i < end; ++i) {
  \n  out += toHex(buf[i])\n}\nreturn
out\nfunction utf16Slice (buf, start, end) {\n  var bytes = buf.slice(start, end)\n  var res = "\n  var len = this.length\n  var start = ~start\n  var end = end === undefined ? len : ~end\n  var i = start \n  var out = ''\n  for (var i = start; i < end; ++i) {
    out += toHex(buf[i])\n  }
  return
out\n}

function utf16leSlice (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\n}

Buffer.prototype.slice = function slice (start, end) {\n  var len = this.length\n  var start = ~start\n  var end = end === undefined ? len : ~end\n  var bytes = this.subarray(start, end)\n  var slicelen = end - start\n  newbuf = new Buffer(slicelen, undefined)\n  for (var i = 0; i < slicelen; ++i) {
    newbuf[i] = bytes[i + start]
  }
  return
newbuf\n}

/*
 * Need to make sure that buffer isn't trying to write out of bounds.
 */

function checkOffset (offset, ext, length) {\n  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) {\n  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) {\n  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) {\n  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) {\n  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) checkOffset(offset, 2, this.length)

  var val = this[offset] | (this[offset + 1] << 8)
  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.readInt16BE = function readInt16BE (offset, noAssert) {\n  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) checkOffset(offset, 2, 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.readInt32LE = function readInt32LE (offset, noAssert) {\n  offset = offset | 0
  byteLength = byteLength | 0
  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) {\n  offset = offset | 0
  byteLength = byteLength | 0
  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) {\n  offset = offset | 0
  byteLength = byteLength | 0
  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 iee754.read(this, offset, false, 23,
}

Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) {
  if (!noAssert)
    checkOffset(offset, 8, this.length)
  return iee754.read(this, offset, true, 52,
}

Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) {
  if (!noAssert)
    checkOffset(offset, 8, this.length)
  return iee754.read(this, offset, false, 52, 8)

function checkInt (buf,
  value, offset, 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(this, value, offset, byteLength, maxBytes, 0)
  }

  var mul = 1
  var i = 0
  this[offset] = value & 0xFF
  while (++i < byteLength && (mul *= 0x100)) {
    this[offset + i] = (value / mul) & 0xFF
  }

  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
  var mul = 1
  this[offset + i] = value & 0xFF
  while (--i >= 0 && (mul *= 0x100)) {
    this[offset + i] = (value / mul) & 0xFF
  }

  return offset + byteLength
}

Buffer.prototype.writeUInt8 = function writeUInt8 (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 1, 0xff, 0)
  if (!Buffer.TYPED_ARRAY_SUPPORT) value = Math.floor(value)
  this[offset] = (value & 0xff)
  return offset + 1
}

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 >>> (littleEndian ? i : 3 - i) * 8) & 0xff
  }
}

Buffer.prototype.writeUInt16LE = function writeUInt16LE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (noAssert) {
    var limit = Math.pow(2, 8 * byteLength - 1)
    checkInt(this, value, offset, byteLength, limit - 1, -limit)
  }

  var i = 0
  var mul = 1
  this[offset] = value & 0xFF
  while (++i < byteLength && (mul *= 0x100)) {
    if (value < 0 && (mul *= 0x100))
      this[offset + i] = ((value / mul) >> 0) - 1
  }

  return offset + 2
}

Buffer.prototype.writeUInt16BE = function writeUInt16BE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (noAssert) {
    var limit = Math.pow(2, 8 * byteLength - 1)
    checkInt(this, value, offset, byteLength, limit - 1, -limit)
  }

  var i = byteLength - 1
  var sub = 0
  this[offset + i] = (value / mul) >> 0
  sub & 0xFF
  var offset = offset + byteLength
}

Buffer.prototype.writeUInt32LE = function writeUInt32LE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (noAssert) {
    var limit = Math.pow(2, 8 * byteLength - 1)
    checkInt(this, value, offset, byteLength, limit - 1, -limit)
  }

  var i = 0
  var mul = 1
  this[offset + i] = (value / mul) >> 0
  sub & 0xFF
  var offset = offset + byteLength
}
mul = 1
var sub = 0
this[offset + i] = value & 0xFF
while (--i >= 0 && (mul *= 0x100)) {
    var sub = 0
    this[offset + i] = ((value / mul) >> 0) - sub & 0xFF
    return offset + byteLength
}

mul = 1
var sub = 0
this[offset + i] = value & 0xFF
while (--i >= 0 && (mul *= 0x100)) {
    if (value < 0
        && sub === 0 && this[offset + i + 1] !== 0) {
        sub = 1
    }
    this[offset + i] = ((value / mul) >> 0) - sub & 0xFF
}

return offset + byteLength
}

mul = 1
var sub = 0
this[offset + i] = value & 0xFF
while (--i >= 0 && (mul *= 0x100)) {
    if (value < 0
        && sub === 0 && this[offset + i + 1] !== 0) {
        sub = 1
    }
    this[offset + i] = ((value / mul) >> 0) - sub & 0xFF
}

return offset + byteLength
}

Buffer.prototype.writeInt8 = function writeInt8 (value, offset,
            noAssert) {
    value = +value
    offset = offset | 0
    if (!noAssert) checkInt(this, value, offset, 1, 0x7f, -0x80)
    if (Buffer.TYPED_ARRAY_SUPPORT) {
        this[offset] = (value & 0xff)
        return offset + 1
    } else {
        objectWriteUInt16(this, value, offset, true)
    }
}

Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert) {
    value = +value
    offset = offset | 0
    if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000)
    if (Buffer.TYPED_ARRAY_SUPPORT) {
        this[offset] = (value & 0xff)
        this[offset + 1] = (value >>> 8)
        return offset + 2
    } else {
        objectWriteUInt16(this, value, offset, true)
    }
}

Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert) {
    value = +value
    offset = offset | 0
    if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000)
    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
}

function checkIEEE754 (buf, value,
            offset, ext, max, min) {
    if (offset + ext > buf.length) throw new RangeError('Index out of range')
    if (offset < 0) throw new RangeError('Index out of range')
}

function writeFloat (buf, value, offset, littleEndian, noAssert) {
    if (!noAssert) {
        checkIEEE754(buf, value, offset, 4, 3.4028234663852886e+38, -3.4028234663852886e+38)
    }
    ieee754.write(buf, value, offset, littleEndian, 23, 4)
    return offset + 4
}

Buffer.prototype.writeFloatLE = function writeFloatLE (value, offset, noAssert) {
    return writeFloat(this, value, offset, true,
        noAssert)
}

Buffer.prototype.writeFloatBE = function writeFloatBE (value, offset, noAssert) {
    return writeFloat(this, value, offset, false,
        noAssert)
}

function writeDouble (buf, value, offset, littleEndian, noAssert) {
    if (!noAssert) {
        checkIEEE754(buf, value, offset, 8, 1.7976931348623157E+308, -1.7976931348623157E+308)
    }
    ieee754.write(buf, value, offset, littleEndian, 52, 4)
    return offset + 8
}

Buffer.prototype.writeDoubleLE = function writeDoubleLE (value, offset, noAssert) {
    return writeDouble(this, value, offset, true,
        noAssert)
}

Buffer.prototype.writeDoubleBE = function writeDoubleBE (value, offset, noAssert) {
    return writeDouble(this, value, offset, false,
        noAssert)
}

Buffer.prototype.copy = function copy (targetBuffer, targetStart=0, sourceStart=0, sourceEnd=buffer.length) {
    targetBuffer.prototype.copy = function copy (target, targetStart, start, end) {
        if (!target) start = 0
            if (target && end >= 0) end = this.length
        if (targetStart >= target.length) throw new RangeError('Index out of range')
        if (offset < 0) throw new RangeError('Index out of range')
        if (!targetStart && targetStart < 0
            || (end > 0 && end < start) end = start
            // Copy 0 bytes; we're done
        } else {
            target[offset] = this[offset + i]
        }
    }
}

Buffer.prototype.fill = function

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fill (val, start, end, encoding) {ln // Handle string cases:
  if (typeof val === 'string') {ln   if (typeof start ===
    'string') {ln     if (encoding === start) {ln       start = 0
        end = this.length
      } else if (typeof end === 'string') {ln         encoding = end
        end = this.length
      } } else if (val.length === 1) {ln          var code = val.charCodeAt(0)
        if (code < 256) {ln            val = code
          } in ln if (encoding !== undefined &
            & typeof encoding !== 'string') {ln             this[1 + start] = bytes[i % len]
          } } ln
          ln return this
        } ln
      } ln
      } else if (typeof val === 'number') {ln        in ln val = val & 255
          } } in ln
        } else if (encoding !== undefined &
          & typeof encoding !== 'string' &
          & !Buffer.isEncoding(encoding)) {ln          return new TypeError('Unknown encoding: ' + encoding)
        } in ln }
      } ln if (typeof encoding === !== 'string' &
        & !Buffer.isEncoding(encoding)) {ln return new TypeError('Unknown encoding: ' + encoding)
    } in ln }
} if (typeof encoding === !== 'string' &
        & !Buffer.isEncoding(encoding)) {ln return new TypeError('Unknown encoding: ' + encoding)
    } in ln }
}
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```
var isFunction = require('./isFunction'),
isLength = require('./isLength');

/**
 * Checks if `value` is array-like. A value is considered array-like if it's
 * not a function and has a `value.length` that's an integer greater than or
 * equal to 0 and less than or equal to Number.MAX_SAFE_INTEGER.
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is array-like, else `false`.
 */
function isArrayLike(value) {
  return value != null && isLength(value.length) &&
  !isFunction(value);
}

module.exports = isArrayLike;
```

```
/* eslint-disable node/no-deprecated-api */
var buffer = require('buffer')
var Buffer = buffer.Buffer

function copyProps (src, dst) {
  for (var key in src) {
    dst[key] = src[key]
  }
}
if (Buffer.from && Buffer.alloc && Buffer.allocUnsafe && Buffer.allocUnsafeSlow)
  module.exports = buffer
else {
  // Copy static methods from Buffer
  copyProps(Buffer, SafeBuffer)
}

SafeBuffer.from = function (arg, encodingOrOffset, length) {
  if (typeof arg === 'number') {
    throw new TypeError('Argument must not be a number')
  }
  return Buffer(arg, encodingOrOffset, length)
}

SafeBuffer.alloc = function (size, fill, encoding) {
  if (typeof size !== 'number') {
    throw new TypeError('Argument must be a number')
  }
  var buf = Buffer(size)
  if (fill !== undefined) {
    if (typeof encoding === 'string') {
      buf.fill(fill, encoding)
    } else {
      buf.fill(fill)
    }
  } else {
    buf.fill(0)
  }
  return buf
}

SafeBuffer.allocUnsafe = function (size) {
  if (typeof size !== 'number') {
    throw new TypeError('Argument must be a number')
  }
  return Buffer(size)
}

SafeBuffer.allocUnsafeSlow = function
```
@constructor
 * @param {Array} entries The key-value pairs to cache.
 */
function MapCache(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 `MapCache`.
MapCache.prototype.clear = mapCacheClear;
MapCache.prototype['delete'] = mapCacheDelete;
MapCache.prototype.get = mapCacheGet;
MapCache.prototype.has = mapCacheHas;

var baseMatches = require('./_baseMatches'),
    baseMatchesProperty = require('./_baseMatchesProperty'),
    identity = require('./_identity'),
    isArray = require('./isArray'),
    property = require('./_property');

/**
 * Checks if `value` is a valid array-like index.
 *
 * @private
 * @param {*} value The value to check.
 * @param {number} [length=MAX_SAFE_INTEGER] The upper bounds of a valid index.
 * @returns {boolean} Returns `true` if `value` is a valid index, else `false`.
 */
function isIndex(value, length) {
  var type = typeof value;
  length = length == null ? MAX_SAFE_INTEGER : length;

  return !!length &&
    (type != 'symbol' &&
      (type != 'object') ||
      (!isArray(value) || baseMatchesProperty(value[0], value[1]) ||
        (typeof value == 'function' ? value.length <= length : length == null) ||
        isLength(value) ||
        (typeof value == 'function' ? isIndex(key, length) : false));
}

module.exports = isIndex;

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//
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// copy of this software and associated documentation files (the
// "Software"), to deal in the Software without restriction,
including
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'use strict';

var R = typeof Reflect === 'object' ? Reflect : null
var ReflectApply = R && typeof R.apply === 'function' ? R.apply : function (target, receiver, args) {
  return Function.prototype.apply.call(target, receiver, args);
}

if (R && typeof R.ownKeys === 'function') {
  ReflectOwnKeys = R.ownKeys
} else if (Object.getOwnPropertySymbols) {
  ReflectOwnKeys = function ReflectOwnKeys(target) {
    return Object.getOwnPropertyNames(target).concat(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 0.10.x
EventEmitter.EventEmitter = EventEmitter;

EventEmitter.prototype._events = undefined;
EventEmitter.prototype._eventsCount = 0;
EventEmitter.prototype._maxListeners = undefined;

// By default Event Emitters will print a warning if more than 10 listeners are added to it. This is a useful default which helps finding memory leaks.

defaultMaxListeners = 10;

Object.defineProperty(EventEmitter, 'defaultMaxListeners', {
  enumerable: true,
  get: function() {
    return 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 + '.');
    }
    defaultMaxListeners = arg;
  }
});

EventEmitter.init = function() {
  if (this._events === undefined ||
      this._events === Object.getPrototypeOf(this)._events) {
    this._events = Object.create(null);
    this._eventsCount = 0;
  }

  this._maxListeners = this._maxListeners || undefined;
  return this;
}

EventEmitter.prototype._eventsCount = function getMaxListeners() {
  return $getMaxListeners(this);
};

EventEmitter.prototype._addListener = 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
  }

  events = target._events;
  if (events === undefined)
    return false;

  if (type === 'error') {
    var error = arguments[1];
    if (error instanceof Error) {
      throw error; // Unhandled 'error' event
    } else if (error === undefined) {
      throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof
  }

  for (var i = 0; i < arguments.length; i++)
    ReflectApply(listeners[i], this, arguments);

  return true;
};

EventEmitter.prototype._removeListener = function _removeListener(target, type, listener) {
  var events;
  var length;
  var args;

  if (typeof listener === 'function') {
    if (target.removeEventListener === undefined)
      return false;
    else if (length = target.removeEventListener(type, listener, false))
      return true;
  } else if (target.removeEventListener === undefined) {
    return false;
  } else if (length = target.removeEventListener(type, listener))
    return true;

  return true;
};

EventEmitter.prototype._removeAllListeners = function _removeAllListeners(target) {
  var listeners;
  var key;

  for (key in target)
    if (key !== '_events' && key !== '_eventsCount' && key !== '_maxListeners')
      delete target[key];

  return target;
};
listener); return target;
}

EventEmitter.prototype.addListener = function addListener(type, listener) {
  return _addListener(this, type, listener, false);
};

EventEmitter.prototype.on = EventEmitter.prototype.addListener;

EventEmitter.prototype.prependListener = function prependListener(type, listener) {
  return _addListener(this, type, listener, true);
};

function onceWrapper() {
  var args = [];
  for (var i = 0; i < arguments.length; i++) args.push(arguments[i]);
  if (!this.fired) {
    this.target.removeListener(this.type, this.wrapFn);
    this.fired = true;
    ReflectApply(this.listener, this.target, args);
  }
}

function _onceWrap(target, type, listener) {
  var state = {
    fired: false, wrapFn: undefined, target: target, type: type, listener: listener
  };
  var wrapped = onceWrapper.bind(state);
  wrapped.listener = listener;
  state.wrapFn = wrapped;
  return wrapped;
}

EventEmitter.prototype.once = function once(type, listener) {
  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof listener);
  }
  this.on(type, _onceWrap(this, type, listener));
  return this;
};

EventEmitter.prototype.prependOnceListener = function prependOnceListener(type, listener) {
  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof listener);
  }
  this.prependListener(type, _onceWrap(this, type, listener));
  return this;
};

// Emits a 'removeListener' event if and only if the listener was removed.
EventEmitter.prototype.removeListener = function removeListener(type, listener) {
  var list,
      events, position, i, originalListener;

  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof listener);
  }

  events = this._events;
  if (events === undefined)
    return this;

  list = events[type];
  if (list === undefined)
    return this;

  if (list === listener || list.listener === listener) {
    if (--this._eventsCount === 0)
      this._events = Object.create(null);
    else {
      delete events[type];
      if (events.removeListener)
        this.emit('removeListener', type, list.listener || listener);
    }
  } else if (typeof list !== 'function') {
    position = -1;

    for (i = list.length - 1; i >= 0; i--)
      if (list[i] === listener || list[i].listener === listener) {
        originalListener = list[i].listener;
        position = i;
        break;
      }

    if (position < 0)
      return this;
  } else {
    spliceOne(list, position);
    if (list.length === 1)
      events[type] = list[0];

    if (events.removeListener !== undefined)
      this.emit('removeListener', type, originalListener || listener);
  }
}

EventEmitter.prototype.removeAllListeners = function removeAllListeners(type) {
  var list, events, position, i, originalListener;

  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof listener);
  }

  if (events === undefined) return this;
  list = events[type];
  if (list === undefined) return this;

  if (this._eventsCount === 0)
    this._events = Object.create(null);
  else {
    delete events[type];
    if (events.removeListener)
      this.emit('removeListener', type, list.listener || listener);
  }

  return this;
};

EventEmitter.prototype.emit = function emit(type, var_args) {
  if (events[type] !== undefined) return this;

  var listener;
  var listeners = this._events[type];
  if (listeners === undefined) return this;

  listener = listeners.listeners[type];

  if (listener !== undefined) return listener;

  for (var i = 0; i < events[type].length; i++)
    if (events[type][i] === listener)
      return listener;

  return listener;
}
(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;
}

// emit removeListener for all listeners on all events
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);
  }
}

this.removeAllListeners('removeListener');
this._events = Object.create(null);
this._eventsCount = 0;
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 _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];

  return unwrap ? unwrapListeners(evlistener) : arrayClone(evlistener, evlistener.length);
}

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 spliceOne(list, index) {
  for (; index + 1 < list.length; index++)
    list[index] = list[index + 1];
  list.pop();
}

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;
}
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.finish = function () {
    onCorkedFinish(_this, state);
  };

  var asyncWrite = !process.browser && ['v0.10', 'v0.9.'].indexOf(process.version.slice(0, 5)) > -1 ? setImmediate : pna.nextTick;

  var Buffer = require('safe-buffer').Buffer;
  function _uint8ArrayToBuffer(chunk) {
    return Buffer.from(chunk);
  }

  function _isUint8Array(obj) {
    return Buffer.isBuffer(obj) || obj instanceof OurUint8Array;
  }
}

WritableState.prototype.getBuffer = function
```

---

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...
getBuffer() {
  var current = this.bufferedRequest;
  var out = [];
  while (current) {
    out.push(current);
    current = current.next;
  }
  return out;
}

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' ? 'warn' : 'error')
    });
  } catch (_) {}
})();

// Test _writableState for inheritance to account for Duplex
streams, which prototype chain only points to Readable.

var realHasInstance = typeof Symbol === 'function' && Symbol.instanceOf && typeof Function.prototype[Symbol.instanceOf] === 'function' ? function (realHasInstance = Function.prototype[Symbol.instanceOf].bind(this)) {
  Object.defineProperty(this.prototype, 'buffer', {
    get: function () {
      return this._writableState.buffer;
    },
    // _writableState.buffer is deprecated. Use _writableState.getBuffer instead
  });
  return (this !== Writable) && realHasInstance.call(this, this) ;
} : function (realHasInstance) {
  if (realHasInstance.call(this, this)) return this;
};

function Writable(options) {
  Duplex = Duplex || require('./_stream_duplex');

  this._writableState = new WritableState(options, this);

  Stream.call(this);
}

Writable.prototype.pipe = function () {
  this.emit('error', new Error('Cannot pipe, not readable'));
};

function writeAfterEnd(stream, cb) {
  var er = new Error('write after end');
  stream.emit('error', er);
  pna.nextTick(cb, er);
}

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);
    pna.nextTick(cb, er);
    valid = false;
  }
  return valid;
}

Writable.prototype.write = function (chunk, encoding, cb) {
  var state = this._writableState;
  var ret = false;
  var isBuf = !state.objectMode && _isUint8Array(chunk);

  if (isBuf && !Buffer.isBuffer(chunk)) {
    chunk = _uint8ArrayToBuffer(chunk);
  }

  if (typeof encoding === 'function') {
    cb = encoding;
    encoding = null;
  }

  if (state.ended) writeAfterEnd(this, cb);
  else if (isBuf && validChunk(this, state, chunk, cb)) {
    state.pendingcb++;
    return writeOrBuffer(this, state, isBuf ? Buffer.isBuffer(chunk) : true, chunk, encoding, cb);
  }
}

Object.defineProperty(Writable.prototype, 'writableHighWaterMark', {
  enumerable: false,
  get: function () {
    return
}})}

node::ParseEncoding() requires lower case.

if (typeof encoding === 'string') encoding = encoding.toLowerCase();

if (!(['hex', 'utf8', 'utf-8', 'ascii', 'binary', 'base64', 'ucs2', 'ucs-2', 'utf16le', 'utf-16le',
    'raw'][indexOf((encoding + '').toLowerCase()) > -1)) throw new TypeError('Unknown encoding: ' + encoding);

if (typeof chunk !== 'string' && chunk !== undefined) Writable.prototype.cork = function () {
  var state = this._writableState;
  state.corked++;
  state.uncork = function () {
    var state = this._writableState;
    state.corked--;
    if (!state.writing && !state.corked && !state.finished && !state.bufferProcessing && !state.bufferedRequest) clearBuffer(this, state);
  };
}

node::ParseEncoding() requires lower case.

if (typeof encoding === 'string') encoding = encoding.toLowerCase();

if (encoding.toLowerCase()) throw new TypeError('Unknown encoding: ' + encoding);

if (this._writableState.defaultEncoding) encoding = this._writableState.defaultEncoding;

if (isBuf) encoding = 'buffer';else if (encoding == state.defaultEncoding) encoding =编码;

if (typeof cb !== 'function') cb = nop;

if (state.ended) writeAfterEnd(this, cb);
else if (isBuf) validChunk(this, state, chunk, cb);

state.pendingcb++;

Writable.prototype.cork = function () {
  var state = this._writableState;
}

state.corked--;

if (!state.writing && !state.corked && !state.finished && !state.bufferProcessing && !state.bufferedRequest) clearBuffer(this, state);

node::ParseEncoding() requires lower case.

if (typeof encoding === 'string') encoding = encoding.toLowerCase();

if (encoding.toLowerCase()) throw new TypeError('Unknown encoding: ' + encoding);

this._writableState.defaultEncoding = encoding;

return this;

if (!state.objectMode && state.decodeStrings) state.uncork = function () {
  var chunk = Buffer.from(chunk, encoding);
  return chunk;
}

Object.defineProperty(Writable.prototype, 'writableHighWaterMark', {
  enumerable: false
});

get: function () {
  return
}})
```javascript
// module id = 134
module chunks = 0
module id = 135
module chunks = 0

var toInteger = require('./_to-integer');
var defined = require('./_defined');
module.exports = function (TO_STRING)
  return 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;
    a = s.charCodeAt(i);
    b = s.charCodeAt(i + 1);
    return TO_STRING ? s.charAt(i) : a
    ;
  ;


var IteratorPrototype = getPrototypeOf($anyNative.call(new Base()));
if (IteratorPrototype !== Object.prototype && IteratorPrototype.next)
  setToStringTag(IteratorPrototype, TAG, true);
  if (!LIBRARY && typeof IteratorPrototype[ITERATOR] != 'function') hide(IteratorPrototype, ITERATOR, returnThis);

if (DEF_VALUES && $native && $native.name !== VALUES)
  VALUES_BUG = true;

$default = function (value) {
  return $native.call(this);
} ;


// Fix for some old engines
if (!LIBRARY && typeof IteratorPrototype[ITERATOR] != 'function') hide(IteratorPrototype, ITERATOR, returnThis);


var $keys = require('./_object-keys-internal');
var enumBugKeys = require('./_enum-bug-keys');

module.exports = Object.keys || function keys(O)
  return $keys(O, enumBugKeys);


var toInteger = require('./_to-integer');
var max = Math.max;
var min = Math.min;
module.exports = function (index, length) {
  index = toInteger(index);
  return index < 0 ? max(index + length, 0) : min(index, length);
};
```
subClass,
  enumerable: false,
  writable: true,
  configurable: true
})(superClass)

_setPrototypeOf2.default = (0, _setPrototypeOf2.default)(subClass, superClass); subClass._proto_ = superclass;

WEBPACK FOOTER

module id = 156

// WEBPACK FOOTER
// ./node_modules/babel-runtime/helpers/inherits.js

module.exports = require('./lib/React');

WEBPACK FOOTER

// module id = 157

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
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 */

'use strict';

var _prodInvariant = require('./reactProdInvariant'), _assign = require('object-assign');

var ReactNoopUpdateQueue = require('./ReactNoopUpdateQueue');

var canDefineProperty = require('./canDefineProperty');
var emptyObject = require('fbjs/lib/emptyObject');
var 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.
  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 only accessing `this.state` after calling this method may return the old value.
 * There is no guarantee that calls to `setState` will run synchronously.
 * They may eventually be batched together. You can provide an optional callback that will be executed when the call to setState is actually, no, is not yet 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, props, and 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.
 * The function will be called with the new state, props, and context.
 * You may want to call this when you know that some deeper aspect of the state has changed but `shouldComponentUpdate` was not called.
 * This will not invoke `shouldComponentUpdate`, but it will invoke `componentWillUpdate` and `componentDidUpdate`.
 * @param {object|function} partialState Next partial state or function to produce next partial state to be merged with current state.
 * @param {?function} callback Called after state is updated.
 * @final
 * @protected
 */
ReactComponent.prototype.setState = function (partialState, callback) {
  if (typeof partialState === 'object' || typeof partialState === 'function' || partialState == null) {
    invariant(false, 'setState(...): takes an object of state variables to update or a function which returns an object of state variables.');
    _prodInvariant('85');
  } else {
    invariant(false, 'setState(...): takes an object of state variables to update or a function which returns an object of state variables.');
  }
}

/**
 * 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 new * modern base class. Instead, we define a getter that warns if it's accessed.
 * var deprecatedAPIS = { isMounted: [null, (process.env.NODE_ENV !== 'production') ? function () { this.updateState(isMounted); return false; } : function () { this.updateState(isMounted); } ] }
 * var defineDeprecationWarning = function (methodName, info) { if (canDefineProperty) { return undefined; }
 * Object.defineProperty(ReactComponent.prototype, methodName, { get: function () { return undefined; } });
 * throw new Error('Warning: ' + methodName + ' is deprecated, please use the new ' + info[0] + ' instead.');
 * var fnName = info[1];
 * if (deprecatedAPIS.hasOwnProperty(fnName)) {
 * defineDeprecationWarning(fnName, deprecatedAPIS[fnName]);
 * if (fnName in varNameList) {
 * varNameList[fnName] = pointerToNewAPI;
 * }
 * }
 * return undefined;
 * } });
 * var fnName = info[1];
 * if (fnName in varNameList) {
 * varNameList[fnName] = pointerToNewAPI;
 * }
 */

Open Source Used In MSX SD-WAN Service Pack 4.0.0 20929
function ReactPureComponent(props, context, updater) {
  // Duplicated from ReactComponent.
  this.props = props;
  this.context = context;
  this.refs = emptyObject;
  // We initialize the default updater but the real one
  // gets injected by the
  // renderer.
  this.updater = updater || ReactNoopUpdateQueue;
}

function ComponentDummy() {}
ComponentDummy.prototype = ReactComponent.prototype;
ReactPureComponent.prototype = new ComponentDummy();
ReactPureComponent.prototype.constructor = ReactPureComponent;

module.exports = {
  Component: ReactComponent,
  PureComponent: ReactPureComponent
};

//////////////////
// WEBPACK FOOTER
// ./node_modules/react/lib/ReactBaseClasses.js
// module id = 158
// module chunks = 0

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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.

// We only update a mounted or mounting component.

// This is a no-op. Please check the code for the %s component.
if (process.env.NODE_ENV !== 'production') {
  warnNoop(publicInstance, callerName);
}

if (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');
}

var ReactNoopUpdateQueue = {
  isMounted: function (publicInstance) {
    return false;
  },

  enqueueCallback: function (publicInstance, callback),

  enqueueForceUpdate: function (publicInstance) {
    warnNoop(publicInstance, 'forceUpdate');
  },

  enqueueReplaceState: function (publicInstance, completeState) {
    warnNoop(publicInstance, 'replaceState');
  },

  enqueueSetState: function (publicInstance, partialState) {
    warnNoop(publicInstance, 'setState');
  }
};

module.exports = ReactNoopUpdateQueue;

//////////////////
// WEBPACK FOOTER
// ./node_modules/react/lib/ReactNoopUpdateQueue.js
// module id = 159
// module chunks = 0

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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.

// We only update a mounted or mounting component.

// This is a no-op. Please check the code for the %s component.
if (process.env.NODE_ENV !== 'production') {
  warnNoop(publicInstance, callerName);
}

if (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');
}

var canDefineProperty = false;
if (process.env.NODE_ENV !== 'production') {
  try {
    Object.defineProperty({}, 'x', { get: function () {} });
  } catch (x) {
    // IE will fail on defineProperty
    canDefineProperty = false;
  }
}

module.exports = canDefineProperty;

// WEBPACK FOOTER
// ./node_modules/react/lib/canDefineProperty.js
// module id = 160
// module chunks = 0

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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.

// We only update a mounted or mounting component.

// This is a no-op. Please check the code for the %s component.
if (process.env.NODE_ENV !== 'production') {
  warnNoop(publicInstance, callerName);
}

if (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');
}
Open Source Used in MSX SD-WAN Service Pack 4.0.0

```javascript
const MAX_LENGTH = 5000
const _document = document
const _memoize = _memoize
const res = responses.map(response => {
  if (codes.contains(DEFAULT_RESPONSE_KEY)) {
    return response
  } else {
    return defaultResponse
  }
}).sort().first()
```

```javascript
const defaultResponse = () => {
  return {
    code: null,
    message: null
  }
}
```

```javascript
const defaultStatusCode = (responses) => {
  let codes = responses.keySeq()
  return res 
```
const validateMaximum = (val, max) => {
  if (val > max) {
    return `Value must be less than Maximum: ${max}`
  }
}

const validateMinimum = (val, min) => {
  if (val < min) {
    return `Value must be greater than Minimum: ${min}`
  }
}

const validateNumber = (val) => {
  if (!/^-?\d+(\.?\d+)?$/.test(val)) {
    return `Value must be a number`;
  }
}

const validateInteger = (val) => {
  if (!/^-?\d+$/.test(val)) {
    return `Value must be an integer`;
  }
}

const validateFile = (val) => {
  if (val && !(val instanceof win.File)) {
    return `Value must be a file`;
  }
}

const validateBoolean = (val) => {
  if (!val || (val !== true && val !== false)) {
    return `Value must be a boolean`;
  }
}

const validateString = (val) => {
  if (val && typeof val !== 'string') {
    return `Value must be a string`;
  }
}

const validateDateTime = (val) => {
  if (isNaN(Date.parse(val))) {
    return `Value must be a DateTime`;
  }
}

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`;
  }
}

const validateMaxLength = (val, max) => {
  if (val.length > max) {
    return `Value must be less than MaxLength: ${max}`;
  }
}

const validateMinLength = (val, min) => {
  if (val.length < min) {
    return `Value must be greater than MinLength: ${min}`;
  }
}

const validatePattern = (val, rxPattern) => {
  if (val && typeof val !== 'string') {
    try {
      JSON.parse(val);
      return `Parameter string value must be valid JSON`;
    } catch (e) {
      return `Parameter string value must be valid JSON`;
    }
  }
}

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;

  let maximum = paramDetails.get('maximum');
  let minimum = paramDetails.get('minimum');
  let type = paramDetails.get('type');
  let format = paramDetails.get('format');
  let maxLength = paramDetails.get('maxLength');
  let minLength = paramDetails.get('minLength');
  let pattern = paramDetails.get('pattern');

  if (type && (required || value)) {
    errors.push('Required field is not provided');
  }

  if (pattern) {
    errors.push(validatePattern(value, pattern));
  }

  if (maxLength || maxLength === 0) {
    errors.push(validateMaxLength(value, maxLength));
  }

  if (minLength) {
    errors.push(validateMinLength(value, minLength));
  }

  if (maximum || maximum === 0) {
    errors.push(validateMaximum(value, maximum));
  }

  if (minimum || minimum === 0) {
    errors.push(validateMinimum(value, minimum));
  }

  if (type === 'string') {
    if (format === 'date-time') {
      errors.push(validateDateTime(value));
    } else if (format === 'uuid') {
      errors.push(validateGuid(value));
    } else if (type === 'boolean') {
      errors.push(validateBoolean(value));
    } else if (type === 'number') {
      errors.push(validateNumber(value));
    } else if (type === 'integer') {
      errors.push(validateInteger(value));
    } else if (type === 'array') {
      errors.push(validateArray(value));
    } else if (type === 'list') {
      errors.push(validateList(value));
    } else if (type === 'object') {
      errors.push(validateObject(value));
    } else if (type === 'guid') {
      errors.push(validateGuid(value));
    } else if (type === 'Enum') {
      errors.push(validateEnum(value));
    } else if (type === 'any') {
      errors.push(validateAny(value));
    } else if (type === 'null') {
      errors.push(validateNull(value));
    } else if (type === 'enum') {
      errors.push(validateEnum(value));
    }
  } else if (type === 'object') {
    errors.push(validateObject(value));
  } else if (type === 'Array') {
    errors.push(validateArray(value));
  } else if (type === 'List') {
    errors.push(validateList(value));
  }

  return errors;
}

// validation of parameters before execute
const validateParamExe = (param, value, { isOAS3 = false, bypassRequiredCheck = false } = {}) => {
  let errors = [];
  let required = param.get('required');
  let paramDetails = isOAS3 ? param.get('schema') : param;

  if (!paramDetails) return errors;

  let maximum = paramDetails.get('maximum');
  let minimum = paramDetails.get('minimum');
  let type = paramDetails.get('type');
  let format = paramDetails.get('format');
  let maxLength = paramDetails.get('maxLength');
  let minLength = paramDetails.get('minLength');
  let pattern = paramDetails.get('pattern');

  if (type && (required || value)) {
    errors.push('Required field is not provided');
  }

  if (pattern) {
    errors.push(validatePattern(value, pattern));
  }

  if (maxLength || maxLength === 0) {
    errors.push(validateMaxLength(value, maxLength));
  }

  if (minLength) {
    errors.push(validateMinLength(value, minLength));
  }

  if (maximum || maximum === 0) {
    errors.push(validateMaximum(value, maximum));
  }

  if (minimum || minimum === 0) {
    errors.push(validateMinimum(value, minimum));
  }

  if (type === 'string') {
    if (format === 'date-time') {
      errors.push(validateDateTime(value));
    } else if (format === 'uuid') {
      errors.push(validateGuid(value));
    } else if (type === 'boolean') {
      errors.push(validateBoolean(value));
    } else if (type === 'number') {
      errors.push(validateNumber(value));
    } else if (type === 'integer') {
      errors.push(validateInteger(value));
    } else if (type === 'array') {
      errors.push(validateArray(value));
    } else if (type === 'list') {
      errors.push(validateList(value));
    } else if (type === 'object') {
      errors.push(validateObject(value));
    } else if (type === 'guid') {
      errors.push(validateGuid(value));
    } else if (type === 'Enum') {
      errors.push(validateEnum(value));
    } else if (type === 'any') {
      errors.push(validateAny(value));
    } else if (type === 'null') {
      errors.push(validateNull(value));
    } else if (type === 'enum') {
      errors.push(validateEnum(value));
    }
  } else if (type === 'object') {
    errors.push(validateObject(value));
  } else if (type === 'Array') {
    errors.push(validateArray(value));
  } else if (type === 'List') {
    errors.push(validateList(value));
  }

  return errors;
}
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, true)
  }

  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) => {
  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) => {
    return eq(a[key], b[key])
  })
}

export function serializeUrl(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` responses
  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(/\s/g, "\%20") : ""
IteratorSeq.prototype._iteratorUncached = function(type, reverse) {
  if (reverse) {
    return this.cacheResult(0, _iterator(type, reverse));
  }
  var varReiter = this._iterator;
  var cache = this._iteratorCache;
  var varReverses = new Arrayseq();
  var varOperations = 0;
  return new Iterator(function() {
    if (varReverses >= varOperations) {
      var varStep = varReiter.next();
      if (varStep.done) {
        return varStep;
      }
      var varValues = varStep[varcache];
      return value;}
  }));
}

// pragma Helper functions

function isSeq(maybeSeq) {
  return !!(maybeSeq && maybeSeq[IS_SEQ_SENTINEL]);
}

function emptySequence() {
  return EMPTY_SEQ || (EMPTY_SEQ = new ArraySeq([{}]));
}

function function keyedSeqFromValue(value) {
  var varSeq = 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 (typeof varSeq !== 'undefined') {
    return varSeq;
  }
}

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
      KeyedSeq(json).map(function(v, k) {return fromJSWith(converter, v, k, json)}).
  }
}

function fromJSDefault(json) {
  if (Array.isArray(json)) {
    return
      IndexedSeq(json).map(fromJSDefault).toList();
  }
  if (isPlainObj(json)) {
    return
      KeyedSeq(json).map(function(v, k) {return fromJSDefault(v, k)}).
  }
}

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](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.
* value, which is different from the algorithm described by
* * 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
* value equality 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); // Fri Feb 13 2009 ...
* assert(date1 !== date2);`
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```javascript
function hashString(string) {
    var hash = 0;
    for (var ii = 0; ii < string.length; ii++) {
        hash = 31 * hash + string.charCodeAt(ii) | 0;
    }
    return 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] ||
        obj.constructor.prototype.propertyIsEnumerable)
    } else {
        // At this point we couldn't get the IE `uniqueID` to use as a hash
        // and we couldn't use a non-enumerable property to exploit the
        // dontEnum bug so we simply add the `UID_HASH_KEY` on the
        // object and we'll hijack one of the less-used non-enumerable properties to
        // save our hash on it. Since this is a function it will not show up
        // in `JSON.stringify` which is what we want.
        if (obj.propertyIsEnumerable = function() {
            return this.constructor.prototype.propertyIsEnumerable);apply(this,
        arguments)
    } else if (obj.nodeType !==
    undefined) {
        obj[UID_HASH_KEY] = hash;
    } else {
        throw new Error('Non-extensible objects are not allowed as keys.');
    } else if (canDefineProperty) {
        Object.defineProperty(obj, UID_HASH_KEY, {
            'enumerable': false,
            'configurable': false,
            'writable': false,
            'value': hash
        });
    else if (obj.nodeType !==
    undefined) {
        obj[UID_HASH_KEY] = hash;
    } else {
        throw new Error('Unable to set a non-enumerable property on object.');
    }

    return hash;
}
```
MAX_ARRAY_MAP_SIZE) {
  return createNodes(ownerID, entries, key, value);
}

var isEditable = ownerID && ownerID === this.ownerID;
var newEntries = isEditable ? entries : artCopy(entries);

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);
}

function BitmapIndexedNode(ownerID, bitmap, nodes) {
  this.ownerID = ownerID;
  this.bitmap = bitmap;
  this.nodes = nodes;

  BitmapIndexedNode.prototype.get = function(shift, keyHash, key, notSetValue) {
    if (keyHash === undefined) {
      keyHash = hash(key);
    }
    var bit = (1 << ((shift === 0 ? keyHash : keyHash >>> shift) & MASK));
    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) {
    if (keyHash === undefined) {
      keyHash = hash(key);
    }
    var keyHashFrag = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
    var var bit = 1 << keyHashFrag;
    var bitmap = this.bitmap;
    var exists = (bitmap & bit) !== 0;
    var var idx = popCount(bitmap & (bit - 1));
    var var nodes = this.nodes;
    var var node = exists ? nodes[idx] : undefined;
    var var newNodes = updateNode(node, ownerID, shift + SHIFT, keyHash, key, value, didChangeSize, didAlter);
    if (newNode === node) {
      return this;
    }

    var newNode = exists ? newNode : bitmap ^ bit;
    var newNodes = exists ? newNode ?
      setIn(nodes, idx, newNode, isEditable) :
      spliceOut(nodes, idx, isEditable) :
      spliceIn(nodes, idx, newNode, isEditable);

    if (isEditable) {
      this.bitmap = newNode;
      this.nodes = newNodes;
      return this;
    }

    return new BitmapIndexedNode(ownerID, newBitmap, newNodes);
  };

  function HashArrayMapNode(ownerID, count, nodes) {
    this.ownerID = ownerID;
    this.count = count;
    this.nodes = nodes;
  }

  HashArrayMapNode.prototype.get = function(shift, keyHash, key, notSetValue) {
    var idx = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
    var removed = value === NOT_SET;
    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) {
      newCount++;
    } else if (!newNode) {
      newCount--;
    }

    var var idex = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
    var var nodes = this.nodes[idx];
    var var node = get(shift + SHIFT, keyHash, key, notSetValue);

    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;
  };

  function 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 var idex = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
    var var nodes = this.nodes[idx];
    var var node = get(shift + SHIFT, keyHash, key, notSetValue);

    return new HashCollisionNode(ownerID, keyHash, entries);
  };

  function 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);
    }
SetRef(didChangeSize);
return mergeIntoNode(this, ownerID, shift, keyHash, [key, value]);

var entries = this.entries;
var idx = 0;
for (var len = entries.length; idx < len; idx++) {
if (is(key, entries[idx][0])) {
break;
}
var var exists = idx < len;
if (exists ? entries[idx][1] === value : removed) {
return this;
}
SetRef(didAlter);
(removed || exists) &
SetRef(didChangeSize);
if (removed && len === 2) {
return new ValueNode(ownerID, this.keyHash, entries[idx ^ 1]);
}
var isEditable = ownerID && ownerID === this.ownerID;
var newEntries = isEditable ? entries : arrCopy(entries);
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 HashCollisionNode(ownerID, this.keyHash, newEntries);
}
}
function ValueNode(ownerID, keyHash, entry) {
this.ownerID = ownerID;
this.keyHash = keyHash;
this.entry = entry;
ValueNode.prototype.get = function(shift, keyHash, key, notSetValue) {
return is(key, this.entry[0]) ? notSetValue : this.entry[1];
}
ValueNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
var removed = value === NOT_SET;
var keyMatch = is(key, this.entry[0]);
if (keyMatch ? value === this.entry[1] : removed) {
return this;
}
SetRef(didAlter);
if (removed) {
return undefined;
}
if (keyMatch) {
if (ownerID && ownerID === this.ownerID) {
return this;
}
return new ValueNode(ownerID, this.keyHash, key, value);
}
}
return new ValueNode(ownerID, this.keyHash, newEntries);
}
}

MapIterator.prototype.next = function() {
var type = this._type;
var stack = this._stack;
while (stack)

var node = stack.node;
var index = stack.index;
var maxIndex = stack.maxIndex;
if (node.entry) {

if (index === 0) {
return mapIteratorValue(type, node.entry);
}
else if (node.entries) {
HashArrayMapNode.prototype.iterate = function(fn, reverse) {
var nodes = this.nodes;
for (var ii = 0, maxIndex = nodes.length - 1; ii <= maxIndex; ii++) {
if (fn(entries[reverse ? maxIndex - ii : ii]) === false) {
return false;
}
}
}
}
}
}

ArrayMapNode.prototype.iterate =
HashCollisionNode.prototype.iterate = function(fn, reverse) {
var entries = this.entries;
for (var ii = 0, maxIndex = entries.length - 1; ii <= maxIndex; ii++) {
if (is(key, entries[reverse ? maxIndex - ii : ii])) {
fn(entries[reverse ? maxIndex - ii : ii]) === false;
}
}
}

BitmapIndexedNode.prototype.iterate =
HashArrayMapNode.prototype.iterate = function(fn, reverse) {
var nodes = this.nodes;
for (var ii = 0, maxIndex = nodes.length - 1; ii <= maxIndex; ii++) {
if (fn(nodes[reverse ? maxIndex - ii : ii]) === false) {
return false;
}
}
}

MapIterator.prototype.get = function(shift, keyHash, key, notSetValue) {
return is(key, this.entry[0]) ? notSetValue : this.entry[1];
}
MapIterator.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
var removed = value === NOT_SET;
var keyMatch = is(key, this.entry[0]);
if (keyMatch ? value === this.entry[1] : removed) {
return this;
}
SetRef(didAlter);
(removed || !exists) &&
SetRef(didChangeSize);
return;
}

MapIterator.prototype.next = function() {
var type = this._type;
var stack = this._stack;
while (stack)

var node = stack.node;
var index = stack.index;
var maxIndex = stack.maxIndex;
if (node.entry) {

if (index === 0) {
return mapIteratorValue(type, node.entry);
}
else if (node.entries) {
HashArrayMapNode.prototype.iterate = function(fn, reverse) {
var entries = this.entries;
for (var ii = 0, maxIndex = entries.length - 1; ii <= maxIndex; ii++) {
if (is(key, entries[reverse ? maxIndex - ii : ii])) {
fn(entries[reverse ? maxIndex - ii : ii]) === false;
}
}
}
}
}
}

BitmapIndexedNode.prototype.iterate =
HashArrayMapNode.prototype.iterate = function(fn, reverse) {
var nodes = this.nodes;
for (var ii = 0, maxIndex = nodes.length - 1; ii <= maxIndex; ii++) {
if (fn(nodes[reverse ? maxIndex - ii : ii]) === false) {
return false;
}
}
}

MapIterator.prototype.get = function(shift, keyHash, key, notSetValue) {
return is(key, this.entry[0]) ? notSetValue : this.entry[1];
}
MapIterator.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
var removed = value === NOT_SET;
var keyMatch = is(key, this.entry[0]);
if (keyMatch ? value === this.entry[1] : removed) {
return this;
}
SetRef(didAlter);
(removed || !exists) &&
SetRef(didChangeSize);
return;
}

MapIterator.prototype.next = function() {
var type = this._type;
var stack = this._stack;
while (stack)

var node = stack.node;
var index = stack.index;
var maxIndex = stack.maxIndex;
if (node.entry) {

if (index === 0) {
return mapIteratorValue(type, node.entry);
}
else if (node.entries) {
HashArrayMapNode.prototype.iterate = function(fn, reverse) {
var entries = this.entries;
for (var ii = 0, maxIndex = entries.length - 1; ii <= maxIndex; ii++) {
if (is(key, entries[reverse ? maxIndex - ii : ii])) {
fn(entries[reverse ? maxIndex - ii : ii]) === false;
}
}
}
}
}
}

BitmapIndexedNode.prototype.iterate =
HashArrayMapNode.prototype.iterate = function(fn, reverse) {
var nodes = this.nodes;
for (var ii = 0, maxIndex = nodes.length - 1; ii <= maxIndex; ii++) {
if (fn(nodes[reverse ? maxIndex - ii : ii]) === false) {
return false;
}
}
}

MapIterator.prototype.get = function(shift, keyHash, key, notSetValue) {
return is(key, this.entry[0]) ? notSetValue : this.entry[1];
}
MapIterator.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
var removed = value === NOT_SET;
var keyMatch = is(key, this.entry[0]);
if (keyMatch ? value === this.entry[1] : removed) {
return this;
}
SetRef(didAlter);
(removed || !exists) &&
SetRef(didChangeSize);
return;
}

MapIterator.prototype.next = function() {
var type = this._type;
var stack = this._stack;
while (stack)

var node = stack.node;
var index = stack.index;
var maxIndex = stack.maxIndex;
if (node.entry) {

if (index === 0) {
return mapIteratorValue(type, node.entry);
}
else if (node.entries) {
HashArrayMapNode.prototype.iterate = function(fn, reverse) {
var entries = this.entries;
for (var ii = 0, maxIndex = entries.length - 1; ii <= maxIndex; ii++) {
if (is(key, entries[reverse ? maxIndex - ii : ii])) {
fn(entries[reverse ? maxIndex - ii : ii]) === false;
}
}
}
}
}
}

BitmapIndexedNode.prototype.iterate =
HashArrayMapNode.prototype.iterate = function(fn, reverse) {
var nodes = this.nodes;
for (var ii = 0, maxIndex = nodes.length - 1; ii <= maxIndex; ii++) {
if (fn(nodes[reverse ? maxIndex - ii : ii]) === false) {
return false;
}
}
}
function updateNode(node, ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  var idx1 = (shift === 0 ? node.keyHash : node.keyHash >>> shift) & MASK;
  var var_nodes = node === undefined && i !== excluding) {
    var bitmap = bit;
    var packedNodes[packedII++] = node; 
  }
  return BitmapIndexedNode(ownerID, (1 << idx1) | (1 << idx2), 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) {
  }
  expandedNodes[including] = node;
  return new HashArrayMapNode(ownerID, count + 1, expandedNodes);
}

function mergeIntoMapWith(map, merger, iterables) {
  var iters = [];
  for (var ii = 0; ii < iterables.length; ii++) {
    var value = iterables[ii];
    var iter = KeyedIterable(value);
    if (!isIterable(value)) {
      iter = iter.map(function(v) {return fromJS(v)});
    }
    iters.push(iter);
  }
  return mergeIntoCollectionWith(map, merger, iters);
}

function deepMerger(existing, value, key) {
  return deepMergerWith(merger)(existing, value, key);
}

function deepMergerWith(merger) {
  return function(existing, value, key) {
    if (existing && existing.mergeDeepWith && isIterable(value)) {
      return existing.mergeDeepWith(merger, value);
    }
    var nextValue = merger(existing, value, key);
    return is(existing, nextValue) ? existing : nextValue;
  };
}

function mergeIntoCollectionWith(collection, merger, iters) {
  iters = iters.filter(function(x) {return x.size !== 0});
  if (iters.length === 0) {
    return collection;
  }
  if (collection.size === 0 && !collection.__ownerID && iters.length === 1) {
    return collection.constructor(iters[0]);
  }
  return collection.withMutations(function(collection) {
    var mergeIntoMap = merger ? function(value, key) {
      collection.update(key, NOT_SET, function(existing) {
        return existing === NOT_SET ? value : merger(existing, value);
      });
    } : function(value, key) {
      collection.set(key, value);
    };
    for (var ii = 0; ii < iters.length; ii++) {
      iters[ii].forEach(mergeIntoMap);
    }
  });
}

function updateInDeepMap(existing, keyPathIter, notSetValue, updater) {
  var isNotSet = existing === NOT_SET;
  var step = keyPathIter.next();
  if (step.done) {
    var existingValue = isNotSet ? notSetValue : existing;
    var newValue = updater(existingValue);
    return existingValue === existing ? newValue : existing;
  }
  invariant(!isNotSet || (existing && existing.set), 'invalid keyPath');
  var key = step.keyPath.next();
  if (step.done) {
    var existingValue = isNotSet ? notSetValue : existing;
    var newValue = updater(existingValue);
    return existingValue === existing ? newValue : existing;
  }
  var var_isNotSetValue = existing === NOT_SET ? var step = keyPathIter.next();
  if (step.done) {
    var existingValue = isNotSet ? notSetValue : existing;
    var newValue = updater(existingValue);
    return existingValue === existing ? newValue : existing;
  }
  return existingValue === NOT_SET ? isNotSet ? notSetValue : existing : newValue;
}

function popCount(x) {
  x = x - ((x >> 1) & 0x55555555);
  x = (x & 0x33333333) + ((x >> 2) & 0x33333333);
  x = (x + (x >> 4)) & 0x0f0f0f0f;
  x = x + (x >> 8); 
  x = x + (x >> 16); 
  return x & 0x0000003f;
}

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(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@@__';
var ListPrototype = List.prototype;

ListPrototype[[IS_LIST_SENTINEL]] = true;
ListPrototype[DELETE] = ListPrototype.remove;
ListPrototype.setIn = MapPrototype.setIn;
ListPrototype.deleteIn = in ListPrototype.removeIn = MapPrototype.removeIn;
ListPrototype.update = MapPrototype.update;
ListPrototype.updateIn = MapPrototype.updateIn;
ListPrototype.mergeIn = MapPrototype.mergeIn;
ListPrototype.mergeDeepIn = MapPrototype.mergeDeepIn;
ListPrototype.withMutations = MapPrototype.withMutations;
ListPrototype.asMutable = MapPrototype.asMutable;
ListPrototype.asImmutable = MapPrototype.asImmutable;
ListPrototype.wasAltered = MapPrototype.wasAltered;

function VNode(array, ownerID) {
  this.array = array;
  this.ownerID = ownerID;
}

var DONE = {};

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 ?
      tail && tail.array : node && node.array;
    var from = offset > left ? 0 : (left - offset) >> level;
    var to = ((right - offset) >> level) + 1;
    if (to > SIZE) {
      to = SIZE;
    }

    return function() {
      if (index !== index) {
        return DONE;
      }
      var idx = reverse ? --to : from++;
      return array && array[idx];
    };

    function iterateNodeOrLeaf(node, level, offset) {
      var return value = null;
      var array = node && node.array;
      var from = offset > level?
        0 : (left - offset) >> level;
      var var = (right - offset) >> level + 1;
      if (to > SIZE) {
        to = SIZE;
      }

      return function() {
        var do {
          if (values) {
            var value = values();
            if (value !== DONE) {
              return value;
            }
            values = null;
          }
          if (from === to) {
            return DONE;
          }
          var idx = reverse ? --to : from++;
          var array = node && array[idx];
          return node && node.array;
        };
      }
  }

  function iterateNode(node, level, offset) {
    var var = (right - offset) >> level;
    var var = (left - offset) >> level;
    return function() {
      var do {
        if (values) {
          var value = values();
          if (value !== DONE) {
            return value;
          }
          values = null;
        }
        if (from === to) {
          return DONE;
        }
        var idx = reverse ? --to : from++;
        var values = iterateNodeOrLeaf
          (array & array[idx], level, level, offset + (idx << level));
        while (true) {
          var var = makeList(0, 0, 0, 0, 0, false);
          var var = Object.create(ListPrototype);
          var list = Object.create(ListPrototype);
          var list.size = size;
          var list._origin = origin;
          var list._capacity = capacity;
          var list._level = level;
          var list._root = root;
          list._tail = tail;
          list._ownerID = ownerID;
          list._hash = hash;
          var list._altered = false;
          var return list;
        };
      }
    }
  }
}

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function(list) {
    var idx = (index >>> level) & MASK;
    var nodeHas = node && idx < node.array.length;
    if (!nodeHas && value === undefined) {
        return node;
    }

    var newNode;

    if (level > 0) {
        var lowerNode = node && node.array[idx];
        var newLowerNode = updateVNode(lowerNode, ownerID, level - SHIFT, index, value, didAlter);
        if (newLowerNode === lowerNode) {
            return node;
        }
        newNode = editableVNode(node, ownerID);
        newNode.array[idx] = newLowerNode;
        return newNode;
    }

    if (nodeHas && node.array[idx] === value) {
        return node;
    }

    SetRef(didAlter);

    newNode = editableVNode(node, ownerID);
    if (value === undefined & idx === newNode.array.length - 1) {
        return null;
    } else {
        return newNode.array[idx] = value;
    }

    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;
        }
    }

    function setListBounds(list, begin, end) {
        // Sanitize begin & end using this shorthand for ToInt32(argument)
        // http://www.ecma-international.org/ecma-262/6.0/#sec-toint32
        if (begin !== undefined) {
            begin = begin | 0;
        }
        if (end !== undefined) {
            end = end | 0;
        }
        var owner = list.__ownerID || new OwnerID();
        var oldOrigin = list._origin;
        var oldCapacity = list._capacity;
        var newOrigin = oldOrigin + begin;
        var newCapacity = end === undefined ? oldCapacity : end < 0 ? oldCapacity + end : oldOrigin + end;
        if (newOrigin === oldOrigin && newCapacity === oldCapacity) {
            return list;
        }

        // If it's going to end after it starts, it's empty.
        if (newOrigin >= newCapacity) {
            return list.clear();
        }

        var newLevel = list._level;
        var newRoot = list._root;

        // New origin might need creating a higher root.
        var offsetShift = 0;
        while (newOrigin + offsetShift < 0) {
            newRoot = new VNode(newRoot && newRoot.array.length ? [null, newRoot] : [], owner);
            newLevel += SHIFT;
            offsetShift += 1 << newLevel;
        }
        if (offsetShift) {
            newOrigin += offsetShift;
            oldOrigin += offsetShift;
            newCapacity += offsetShift;
            oldCapacity += offsetShift;
        }
        var oldVNode = null;
        var newVNode = getTailOffset(oldCapacity); // New size might need creating a higher root while (newVNodeOffset >= 0) {
            newRoot = new VNode(newRoot && newVNodeOffset + newRoot.array.length ? [newRoot] : [null, owner]);
            newLevel += SHIFT;
        }

        // Locate or create the new tail.
        var oldTail = list._tail;
        var newTail = newTailOffset < oldTailOffset ? 
            listNodeFor(list, newVNodeOffset) :
            new VNode([], owner);
        var newLevel = 1 << newVNodeOffset;
        if (offsetShift) {
            newOrigin += offsetShift;
            oldOrigin += offsetShift;
            newCapacity += offsetShift;
            oldCapacity += offsetShift;
        }
        var oldTailOffset = getTailOffset(oldCapacity);
        var newTailOffset = getTailOffset(newCapacity);

        // If the root has been trimmed, garbage collect.
        if (newOrigin > oldOrigin || newTailOffset < oldTailOffset) {
            newRoot = new VNode(newRoot && newVNodeOffset + newRoot.array.length ? [null, newRoot] : [null, owner]);
            newLevel = 1 << newVNodeOffset;
        } else if (newOrigin > oldOrigin) {
            newTailOffset = oldTailOffset + newVNodeOffset;
        }
    }

    function updateVNode(node, ownerID, level, index, value, didAlter) {
        var idx = (index >>> level) & MASK;
        var nodeHas = node && idx < node.array.length;
        if (!nodeHas && value === undefined) {
            return node;
        }

        var newNode;

        if (level > 0) {
            var lowerNode = node && node.array[idx];
            var newLowerNode = updateVNode(lowerNode, ownerID, level - SHIFT, index, value, didAlter);
            if (newLowerNode === lowerNode) {
                return node;
            }
            newNode = editableVNode(node, ownerID);
            newNode.array[idx] = newLowerNode;
            return newNode;
        }

        if (nodeHas && node.array[idx] === value) {
            return node;
        }

        SetRef(didAlter);

        newNode = editableVNode(node, ownerID);
        if (value === undefined & idx === newNode.array.length - 1) {
            return null;
        } else {
            newNode.array[idx] = value;
        }

        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;
            }
        }

        function setListBounds(list, begin, end) {
            // Sanitize begin & end using this shorthand for ToInt32(argument)
            // http://www.ecma-international.org/ecma-262/6.0/#sec-toint32
            if (begin !== undefined) {
                begin = begin | 0;
            }
            if (end !== undefined) {
                end = end | 0;
            }
            var owner = list.__ownerID || new OwnerID();
            var oldOrigin = list._origin;
            var oldCapacity = list._capacity;
            var newOrigin = oldOrigin + begin;
            var newCapacity = end === undefined ? oldCapacity : end < 0 ? oldCapacity + end : oldOrigin + end;
            if (newOrigin === oldOrigin && newCapacity === oldCapacity) {
                return list;
            }

            // If it's going to end after it starts, it's empty.
            if (newOrigin >= newCapacity) {
                return list.clear();
            }

            var newLevel = list._level;
            var newRoot = list._root;

            // New origin might need creating a higher root.
            var offsetShift = 0;
            while (newOrigin + offsetShift < 0) {
                newRoot = new VNode(newRoot && newRoot.array.length ? [null, newRoot] : [null, owner]);
                newLevel += SHIFT;
                offsetShift += 1 << newLevel;
            }
            if (offsetShift) {
                newOrigin += offsetShift;
                oldOrigin += offsetShift;
                newCapacity += offsetShift;
                oldCapacity += offsetShift;
            }

            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;
                }
            }

            function setListBounds(list, begin, end) {
                // Sanitize begin & end using this shorthand for ToInt32(argument)
                // http://www.ecma-international.org/ecma-262/6.0/#sec-toint32
                if (begin !== undefined) {
                    begin = begin | 0;
                }
                if (end !== undefined) {
                    end = end | 0;
                }
                var owner = list.__ownerID || new OwnerID();
                var oldOrigin = list._origin;
                var oldCapacity = list._capacity;
                var newOrigin = oldOrigin + begin;
                var newCapacity = end === undefined ? oldCapacity : end < 0 ? oldCapacity + end : oldOrigin + end;
                if (newOrigin === oldOrigin && newCapacity === oldCapacity) {
                    return list;
                }

                // If it's going to end after it starts, it's empty.
                if (newOrigin >= newCapacity) {
                    return list.clear();
                }

                var newLevel = list._level;
                var newRoot = list._root;

                // New origin might need creating a higher root.
                var offsetShift = 0;
                while (newOrigin + offsetShift < 0) {
                    newRoot = new VNode(newRoot && newRoot.array.length ? [null, newRoot] : [null, owner]);
                    newLevel += SHIFT;
                    offsetShift += 1 << newLevel;
                }
                if (offsetShift) {
                    newOrigin += offsetShift;
                    oldOrigin += offsetShift;
                    newCapacity += offsetShift;
                    oldCapacity += offsetShift;
                }

                // Locate or create the new tail.
                var oldTail = list._tail;
                var newTail = newTailOffset < oldTailOffset ?
                    listNodeFor(list, newVNodeOffset) :
                    new VNode([], owner);
                var newLevel = 1 << newVNodeOffset;
                if (offsetShift) {
                    newOrigin += offsetShift;
                    oldOrigin += offsetShift;
                    newCapacity += offsetShift;
                    oldCapacity += offsetShift;
                }

                // If the root has been trimmed, garbage collect.
                if (newOrigin > oldOrigin || newTailOffset < oldTailOffset) {
                    newRoot = new VNode(newRoot && newVNodeOffset + newRoot.array.length ? [null, newRoot] : [null, owner]);
                    newLevel = 1 << newVNodeOffset;
                } else if (newOrigin > oldOrigin) {
                    newTailOffset = oldTailOffset + newVNodeOffset;
                }
            }
oldTailOffset) { // 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 !==
    newLevel := SHIFT; newRoot = newRoot.array[beginIndex];
} // Trim the new sides of the new root.
if (newRoot && & newOrigin > oldOrigin) {newRoot =
  newRoot.removeBefore(owner, newOrigin, newOrigin - offsetShift);}
} if (newRoot && newTailOffset <
  oldTailOffset) {newRoot = newRoot.removeAfter(owner, newOrigin, newTailOffset - offsetShift);}
}
if (offsetShift) {newOrigin := offsetShift; newCapacity := offsetShift;}

if (list.__ownerID) {list.size = newCapacity - newOrigin; list._origin = newOrigin; list._capacity =
  newCapacity; list._level = new_level; list_root = newRoot; list._tail = newTail; list._hash =
  undefined; list._altered = true; return list;}
}

return makeList(newOrigin, newCapacity, newLevel, newRoot, newTail);}

function 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 this$0 = this;
      return this._list.__iterate(function(entry) {
        return entry && fn(entry[1], entry[0], this$0)}, reverse)
    };

    OrderedMap.prototype.__iterator = function(type, reverse) {
      return 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;
    };

    function emptyOrderedMap() {
      return EMPTY_ORDERED_MAP;
    };

    function emptyList() {
      return EMPTY_LIST;
    };

    function updateOrderedMap(omap, k, v) {
      var this$0 = this;
      return this._map.__ensureOwner(ownerID);}}
map.size * 2) {\n  newList = list.filter(function(entry, idx) { return entry !== undefined & & i !== idx});\n  newMap = newList.toKeyedSeq().map(function(entry) { return entry[0][1]})).__ownerID = omap._ownerID;\n  } else {\n    newMap = map.remove(k);\n    newMap = map.set(k, list.get(i));\n    if (omap.__ownerID) {\n      newMap.__ownerID = omap.__ownerID;\n    } else {\n      newMap = omap;\n    }\n  }\n\n  if (has) {\n    var v = list.get(i);\n    if (v !== undefined) {\n      newMap = map.remove(k);\n      newMap = map.set(k, v);\n      if (omap.__ownerID) {\n        omap.size = newMap.size;\n        omap._map = newMap;\n        omap._list = newList;\n        omap.__hash = undefined;\n        return omap;\n      }\n      return makeOrderedMap(newMap, newList);\n    }\n  }\n\n  createClass(ToKeyedSequence, KeyedSeq); function ToKeyedSequence(indexed, useKeys) {\n    this._iter = indexed;\n    this._useKeys = useKeys;\n    this.size = indexed.size;\n    this.get = function(key, notSetValue) { return this._iter.get(key, notSetValue);};\n    this.has = function(key) { return this._iter.has(key);};\n    this.valueSeq = function() { return this._iter.valueSeq();};\n    this.reverse = function() { var this$0 = this;\n      var reverse = true;\n      return this._iter.__iterate(this$0, reverse);};\n    this.map = function(mapper, context) { var this$0 = this;\n      var mappedSequence = mapFactory(this$0, mapper, context);\n      return mappedSequence;};\n    this.__iterate = function(fn, reverse) { var this$0 = this;\n      return this._iter.__iterate(this$0, reverse);};\n    this.__iterator = function(type, reverse) { return this._iter.__iterator(type, reverse);};\n  };
FromEntriesSequence.prototype._iterator = function(type, reverse) {
  var iterator = this._iter._iterator(INDEXED_ITERABLE); 
  return new Iterator(function() {
    while (true) {
      var step = iterator.next(); 
      if (step.done) {
        return step; 
      }
      var entry = step.value; 
      // Check if entry exists first so array access doesn't throw for holes
      if (in the parent iteration) {
        if (entry)
          validateEntry(entry); 
        var indexedIterable = isIterable(entry); 
        return iteratorValue(type, indexedIterable ? entry[0] : entry[1], indexedIterable ? entry[1] : entry[0], step); 
      }
    }
  }); 
}

ToKeyedSequence.prototype.cacheResult = 
ToSetSequence.prototype.cacheResult = 
FromEntriesSequence.prototype.cacheResult = 

var flipFactory = function(Iterable) {
  var flipSequence = makeSequence(Iterable); 
  flipSequence._iter = iterable; 
  flipSequence.size = iterable.size; 
  flipSequence.flip = function() {
    return iterable.reverse(); 
  };
  var reversedSequence = iterable.reverse(); 
  flipSequence.reverse = function() {
    return iterable.reverse(); 
  };
  flipSequence.includes = function(key) {
    return iterable.includes(key); 
  };
  flipSequence.includes = function(key) {
    return iterable.includes(key); 
  };
  flipSequence.cacheResult = cacheResultThrough; 
  flipSequence.__iterateUncached = function(fn, reverse) {
    var S0 = this; 
    var return iterable.__iterate(function(v, k) {
      return fn(k, v, this$0); 
    }, reverse); 
    var S0 = this; 
    var return iterable.__iterateUncached = function(type, reverse) {
      if (type === ITERATE_ENTRIES) {
        var iterator = iterable.__iterator(type, reverse);
        return new Iterator(function() {
          var step = iterator.next(); 
          if (!step.done) {
            var entry = step.value; 
            var key = entry[0]; 
            return iteratorValue(type, key, entry[1], step); 
          }
        }); 
      }
      return iterable.__iterator(type === ITERATE_VALUES ? ITERATE_ENTRIES : ITERATE_VALUES, return new Iterator(function() {
        var step = iterable.next(); 
        if (!step.done) {
          var v = step.value[0]; 
          var k = step.value[1]; 
          return step; 
        }
      }); 
    }
  }

function filterFactory(iterable, predicate, context, useKeys) {
  var filterSequence = makeSequence(iterable); 
  filterSequence._iter = iterable; 
  filterSequence.size = iterable.size; 
  filterSequence.flip = function() {
    return iterable.reverse(); 
  };
  filterSequence.includes = function() {
    return iterable.includes(); 
  };
  filterSequence.includes = function(value) {
    return iterable.includes(value); 
  };
  filterSequence.cacheResult = cacheResultThrough; 
  filterSequence.__iterate = function(fn, reverse) {
    var S0 = this; 
    return iterable.__iterate(function(v, k, c) {
      return fn(mapper.call(context, v, k, c), k, this$0); 
    }, !reverse); 
  };
  filterSequence.__iterator = function(type, reverse) {
    return iterable.__iterator(type, reverse); 
  };
  return filterSequence; 
}

function reverseFactory(iterable, useKeys) {
  var reversedSequence = makeSequence(iterable); 
  reversedSequence._iter = iterable; 
  reversedSequence.size = iterable.size; 
  reversedSequence.flip = function() {
    return iterable.reverse(); 
  };
  reversedSequence représente des fonctions de mise en cache, des itérations et des opérations de renversement. Les fonctions flipFactory, filterFactory et reverseFactory créent des séquences de renversement, de filtrage et de renversement, respectivement.
Open Source Used In MSX SD-WAN Service Pack 4.0.0
Record(defaultValues, name) {
  var hasInitialized;
  var RecordType = function Record(values) {
    if (values instanceof RecordType) {
      return new RecordType(values);
    } else if (hasInitialized) {
      return new RecordType(values);
    } else if (hasInitialized) {
      return new RecordType(values);
    } else {
      hasInitialized = true;
      var keys = Object.keys(defaultValues);
      setProps(RecordTypePrototype, keys);
      RecordTypePrototype._defaultValues = defaultValues;
    }
    if (this_map) {
      var record = function() {
        return new RecordType(values);
      };
      if (this_map) {
        var RecordType = new RecordType(values);
      };
    } else {
      hasInitialized = true;
      var keys = Object.keys(defaultValues);
      setProps(RecordTypePrototype, keys);
      RecordTypePrototype._defaultValues = defaultValues;
    }
    if (this_map) {
      var record = function() {
        return new RecordType(values);
      };
      if (this_map) {
        var RecordType = new RecordType(values);
      };
    } else {
      hasInitialized = true;
    }
    var RecordTypePrototype = Object.create(RecordPrototype);
    RecordTypePrototype.constructor = RecordType;
    Record.prototype.toString = function() {
      return this.__toString(recordName(this) + ' {', '}');
    };
  }
}
Record.prototype.has = function(k) {
  return this._defaultValues.hasOwnProperty(k);
};
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;
};
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);
};
Record.prototype.wasAltered = function() {
  return this._map.wasAltered();
};
Record.prototype.__iterator = function(type, reverse) {
  var this$0 = this;
  return KeyedIterable(this._defaultValues).map(function(_, k) {
    return this.get(k)
  }).__iterator(type, reverse);
};
Record.prototype.__iterate = function(fn, reverse) {
  var this$0 = this;
  return KeyedIterable(this._defaultValues).map(function(_, k) {
    return this.get(k)
  }).__iterate(fn, reverse);
};
Record.prototype.__ensureOwner = function(ownerID) {
  if (ownerID === this.__ownerID) {
    return this;
  }
  var newMap = this._map && this._map.__ensureOwner(ownerID);
  if (!ownerID) {
    this.__ownerID = ownerID;
    this._map = newMap;
    return this;
  }
  return makeRecord(this, newMap, ownerID);
};
Record.prototype.merge = MapPrototype.merge;
Record.prototype.mergeWith = MapPrototype.mergeWith;
Record.prototype.mergeIn = MapPrototype.mergeIn;
Record.prototype.mergeDeep = MapPrototype.mergeDeep;
Record.prototype.mergeDeepWith = MapPrototype.mergeDeepWith;
Record.prototype.mergeDeepIn = MapPrototype.mergeDeepIn;
Record.prototype.setIn = MapPrototype.setIn;
Record.prototype.update = MapPrototype.update;
Record.prototype.updateIn = MapPrototype.updateIn;
Record.prototype.withMutations = MapPrototype.withMutations;
RecordPrototype.asMutable = MapPrototype.asMutable;
RecordPrototype.asImmutable = MapPrototype.asImmutable;
var function makeRecord(likeRecord, map, ownerID) {
  var record = Object.create(Object.getPrototypeOf(likeRecord));
  record._ownerID = ownerID;
  return record;
};
var function recordName(record) {
  return record._name || record.constructor.name || 'Record';
};
var function setProps(prototype, names) {
  try {
    var names = JSON.parse(protobuf.bind(undefined, prototype));
  } catch (error) {
    Object.definePropertyFailed;
    Probably IE8.
  }
  var 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);
      }
    });
  };
  var function createClass(Set, SetCollection) {
    // @pragma Construction
  }
}
```javascript
            iter.forEach(function(v) { return set.add(v)});
        });
    }

    Set.of = function(/*...values*/) {
      return this(arguments);
    };

    Set.fromKeys = 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 = SLICES0.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(iter[ii]).forEach(function(value) { return set.add(value)});
        }
      });
    };

    Set.prototype.intersect = function() {var iters = SLICES0.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(iter) { return iter.includes(value)})) {
            set.remove(value);
          }
        });
      });
    };

    Set.prototype.subtract = function() {var iters = SLICES0.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.some(function(iter) { return iter.includes(value)})) {
            set.remove(value);
          }
        });
      });
    };

    Set.prototype.unionWith = function(merger) {var iters = SLICES0.call(arguments, 1);
      return this.union.apply(this, iters);
    };

    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 = ownerID;
        this._map = newMap;
        return this;
      }
      return this.__make(newMap, ownerID);
    };

    function isSet(maybeSet) {
      return !!(maybeSet && maybeSet[IS_SET_SENTINEL]);
    }

    Set.isSet = isSet;

    var IS_SET_SENTINEL = '@@__IMMUTABLE_SET__@@';

    var SetPrototype = Set.prototype;
    SetPrototype[IS_SET_SENTINEL] = true;
    SetPrototype[DELETE] = SetPrototype.remove;
    SetPrototype.mergeDeep = SetPrototype.merge;
    SetPrototype.mergeDeepWith = SetPrototype.mergeWith;
    SetPrototype.withMutations = MapPrototype.withMutations;
    SetPrototype.asMutable = MapPrototype.asMutable;
    SetPrototype.asImmutable = MapPrototype.asImmutable;
    SetPrototype.__empty = emptySet;
    SetPrototype.__make = makeSet;
    SetPrototype.updateSet = function(set, newMap) {
      if (set._ownerID) {
        set.size = newMap.size;
        set._map = newMap;
        return set;
      }
      return newMap === 0 ? null : set._empty();
    };

    function makeSet(map, ownerID) {
      var newMap = map ? new Map(map) : new Map();
      return newMap;
    };

    function updateSet(set, newMap) {
      if (set._ownerID) {
        set.size = newMap.size;
        set._map = newMap;
        return set;
      }
      return newMap === 0 ? null : set._empty();
    };

    SetPrototype.__empty = emptySet;
    SetPrototype.__make = makeSet;
    SetPrototype.updateSet = function(set, newMap) {
      if (set._ownerID) {
        set.size = newMap.size;
        set._map = newMap;
        return set;
      }
      return newMap === 0 ? null : set._empty();
    };

    function isOrderedSet(value) {
      var emptyOrderedSet = OrderedSet.create();
      var isOrderedSet = false;
      emptyOrderedSet.withMutations(function(set) {
        if (set._ownerID) {
          var isSet = SetPrototype.isSet(set);
          isOrderedSet = isSet;
          return isOrderedSet;
        }
      });
      return isOrderedSet;
    }

    if (ArrayBuffer.isView) {
      console.warn('ArrayBuffer.isView is an ArrayBuffer property. You may run into unintended behavior.');
    }

    if (hasProp) {
      console.warn('addProp is not supported. Use the property accessor instead.');
    }

    return SetPrototype;
  }
}

set = new Set(['a', 'b', 'c', 'd', 'e', 'f']);
set.add('g');
set.remove('a');
set.clear();
```

maxFactory(this, comparator);
},

maxBy: function(mapper, comparator) {
  return maxFactory(this, comparator, mapper);
},

min: function(comparator) {
  return maxFactory(this, comparator ? neg(comparator) : defaultNegComparator);
},

minBy: function(mapper, comparator) {
  return maxFactory(this, comparator ? neg(comparator) : defaultNegComparator, mapper);
},

rest: function() {
  return this.slice(1);
},

skip: function(amount) {
  return this.slice(Math.max(0, amount));
},

skipLast: function(amount) {
  return reify(this, this.toSeq().reverse().skip(amount).reverse());
},

skipWhile: function(predicate, context) {
  return reify(this, skipWhileFactory(this, predicate, context, true));
},

skiplast: function(predicate, context) {
  return reify(this, skipLastFactory(this, predicate, context));
},

sortBy: function(mapper, comparator) {
  return reify(this, sortByFactory(this, comparator, mapper));
},

take: function(amount) {
  return this.slice(0, Math.max(0, amount));
},

takeLast: function(amount) {
  return reify(this, slice(0, Math.max(0, amount)));
},

takeWhile: function(predicate, context) {
  return reify(this, takeWhileFactory(this, predicate, context));
},

takeUntil: function(predicate, context) {
  return reify(this, takeUntilFactory(this, predicate, context));
},

valueSeq: function() {
  return this.toIndexedSeq();
},

// ### Hashable Object

hashCode: function() {
  return this.__hash || (this.__hash = hashIterable(this));
},

// ### Internal

// abstract __iterate(fn, reverse)
// abstract __iterator(type, reverse)
};

IterablePrototype[IS_ITERABLE_SENTINEL] = true;
IterablePrototype[ITERATOR_SYMBOL] = IteratorPrototype.values;
IterablePrototype.__toJS = IteratorPrototype.toArray;

IterablePrototype.__toStringMapper = quoteString;

IterablePrototype.inspect = function() {
  return this.toString();
};

IterablePrototype.chain = IteratorPrototype.flatMap;

IterablePrototype.contains = IterablePrototype.includes;

IterablePrototype.mapEntries = function(mapper, context) {
  var this$0 = this;
  var iterations = 0;
  return reify(this,
    this.toSeq().map(
      function(v, k)  {return mapper.call(context, [k, v], iterations++, this$0)}
    ).fromEntrySeq()
  );
},

IterablePrototype.mapKeys = function(mapper, context) {
  var this$0 = this;
  return reify(this,
    this.toSeq().flip().map(
      function(k, v)  {return mapper.call(context, k, v, this$0)}
    ).flip()
  );
},

IterablePrototype.filter = function(predicate, context) {
  return reify(this, filterFactory(this, predicate, context));
},

IterablePrototype.findIndex = function(predicate, context) {
  var entry = this.findEntry(predicate, context);
  return entry ? entry[0] : -1;
},

IterablePrototype.indexOf = function(searchValue) {
  var key = this.keyOf(searchValue);
  return key === undefined ? -1 : key;
},

IterablePrototype.lastIndexOf = function(searchValue) {
  var key = this.lastKeyOf(searchValue);
  return key === undefined ? -1 : key;
},

IterablePrototype.reverse = function() {
  return reify(this, reverseFactory(this));
},

IterablePrototype.slice = function(begin, end) {
  return reify(this, sliceFactory(this, begin, end));
},

IterablePrototype.splice = function(index, numArgs /*, ...values*/) {
  var numArgs = arguments.length;
  return Num = Math.max(numArgs | 0, 0);
  if (numArgs === 0 ||
    (numArgs === 2 && !removeNum)) {
    return this;
  } else {
    return reify(this, slice(0, Math.max(0, amount)));
  },

  var index = resolveBegin(index);
  if (index < 0) {
    return reify(this, slice(0, Math.max(0, amount)));
  } else {
    var slice = function(begin, end) {
      return reify(this, sliceFactory(this, begin, end, false));
    },

    var slice = function(index, removeNum /*, ...values*/) {
      var numArgs = arguments.length;
      var removeNum = Math.max(numArgs | 0, 0);
      if (numArgs === 0 ||
        (numArgs === 2 && !removeNum)) {
        return this;
      } else {
        var numArgs = 1 ? numArgs :
          this.slice(index + removeNum);
        return reify(this, slice(0, index));
      }
    },

    // 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.
    var index = resolveBegin(index, index < 0 ? this.count() : this.size);
    var numArgs = this.slice(0, index);
    return reify(this, slice(0, index));
  }
} };
methods

findLastIndex: function(predicate, context) {
  var entry = this.findLastEntry(predicate, context);
  return entry ? entry[0] : undefined;
}

first: function() {
  return this.get(0);
}

flatten: function(depth) {
  var entries = this.entries().map(function(entry) {
    return entry[0];
  });
  if (depth === undefined) {
    return Flatten(entries, Flatten_constants.LEVEL_ALL);
  } else {
    return Flatten(entries, Flatten_constants.LEVEL_ALL + depth);
  }
}

get: function(index, notSetValue) {
  index = wrapIndex(this, index);
  if (index < 0 || (this.size === Infinity || index > this.size)) {
    return notSetValue;
  } else {
    return 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 : true);
}

interpose: function(separator) {
  return reify(this, interposeFactory(this, separator));
}

interleave: function() {
  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() {
  var iterables = [this].concat(arrCopy(arguments));
  return reify(this, zipWithFactory(this, defaultZipper, iterables));
}

zipWith: function(zipper) {
  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;

SetIterable.prototype = iterablePrototype;

mixin(KeyedSeq, KeyedIterable.prototype);

mixin(IndexedSeq, IndexedIterable.prototype);

mixin(KeyedCollection, KeyedIterable.prototype);

mixin(IndexedCollection, IndexedIterable.prototype);

mixin(SetSeq, SetIterable.prototype);

mixin(SetCollection, SetIterable.prototype);

mixin(KeyedCollection, KeyedIterable.prototype);

mixin(SetCollection, SetIterable.prototype);

mixin(Record, Record.prototype);

mixin(Range, Range.prototype);

mixin(Repeat, Repeat.prototype);

mixin(Immutable, Immutable.prototype);

mixin(Iterable, Iterable.prototype);

mixin(Scene, Scene.prototype);

mixin(Map, Map.prototype);

mixin(OrderedMap, Map.prototype);

mixin(OrderedMap, Map.prototype);

mixin(Stack, Stack.prototype);

mixin(Record, Record.prototype);

mixin(Record, Record.prototype);

mixin(Repeat, Repeat.prototype);

mixin(Immutable, Immutable.prototype);

mixin(Iterable, Iterable.prototype);

mixin(Scene, Scene.prototype);

mixin(Map, Map.prototype);

mixin(OrderedMap, Map.prototype);

mixin(Stack, Stack.prototype);

mixin(Record, Record.prototype);

mixin(Repeat, Repeat.prototype);

mixin(Immutable, Immutable.prototype);

mixin(Iterable, Iterable.prototype);

mixin(Scene, Scene.prototype);

mixin(Map, Map.prototype);

mixin(OrderedMap, Map.prototype);

mixin(Stack, Stack.prototype);

mixin(Record, Record.prototype);
var createCaseFirst = require('./_createCaseFirst');

/**
 * Converts the first character of `string` to upper case.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category String
 *
 * @param {string} string The string to convert. 
 * @returns {string} Returns the converted string.
 */
var upperFirst = createCaseFirst('toUpperCase');

module.exports = upperFirst;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/upperFirst.js
// module id = 170
// module chunks = 0","var rsZWI = '\\u200d';

/** Used to compose unicode character classes. */
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 rsZWJ = '\u200d';

/** Used to detect strings with zero-width joiners or code points from the astral planes(http://eev.ee/blog/2015/09/12/dark-corners-of-unicode/). */
var rsHasUnicode = RegExp('[\ud800-\udfff][\udc00-\udfff]');

/** Checks if `string` contains Unicode symbols. */
function hasUnicode(string) {
  return rsHasUnicode.test(string);
}

module.exports = hasUnicode;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_hasUnicode.js
// module id = 171
// module chunks = 0","MapCache = require('./_MapCache');

/** Error message constants. */
var FUNC_ERROR_TEXT = 'Expected a function';

/**
 * 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
 * provided to the memoized function is used as the map cache key. The `.func`
 * is invoked with the `.this` binding of the memoized function. 
 *
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Function
 *
 * @param {Function} func The function to have its output memoized. 
 * @param {Function} [resolver] The function to resolve the cache key.
 * @returns {Function} Returns the new memoized function.
 * @example
 *
 * var object = { 'a': 1, 'b': 2 };
 * var other = { 'c': 3, 'd': 4 };
 *
 * var values = _.memoize(_.values);
 * values(object);
 * // => [1, 2]
 *
 * values(other);
 * // => [3, 4]
 *
 * object.a = 2;
 * values(object);
 * // => [1, 2]
 *
 * // Modify the result cache.
 * values.cache.set(object, [ 'a', 'b' ]);
 * values(object);
 * // => [ 'a', 'b' ]
 *
 * // Replace `_.memoize.Cache`.
 * _.memoize.Cache = WeakMap;
 * values(object);
 * // => [ 'a', 'b' ]
 *
 * if (typeof func != 'function') { throw new
 *   TypeError(FUNC_ERROR_TEXT); }
 * if (resolver != null && typeof resolver == 'function') { 
 *   resolver = resolver( /*#__PURE__*/
 *     object, args);
 * } else {
 *   resolver = (this, args);
 * }
 * return func.apply(resolver, args); 
 */
function memoize(func, resolver) {
  if (typeof func != 'function') {
    throw new TypeError(FUNC_ERROR_TEXT);
  }
  if (resolver != null) {
    var memoized = function() {
      var args = arguments,
          key = resolver.apply(this, args),
          cache = memoized.cache;

      if (cache.has(key)) {
        return cache.get(key);
      }
      var result = func.apply(this, args);
      memoized.cache = cache.set(key, result);
      return result;
    };
    memoized.cache = new (memoize.Cache || MapCache);
    return memoized;
  }
  var memoized = function() {
    var args = arguments,
        key = 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);
    return result;
  };
  memoized.cache = new (memoize.Cache || MapCache);
  memoized.cache.set(key, result);
  return result;
}

module.exports = memoize;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/memoize.js
// module id = 172
// module chunks = 0","var isObject = require('lodash/_isObject');

/** Checks if `value` is classified as a `Function` object.
 *
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Lang
 * @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 = (value.nodeType ? 'object' : typeof value) == 'function' ? 'function' : false;
  return tag;
}

module.exports = isFunction;


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isStrictComparable(value) { ln return value === value && !isObject(value); } \n
module.exports = isStrictComparable;

function isStrictComparable(value) {
  return value === value && !isObject(value);
}

module.exports = isStrictComparable;

function matchesStrictComparable(key, srcValue) {
  return function(object) {
    if (object == null) {
      return false;
    }
    return object[key] === srcValue &&
    srcValue !== undefined || (key in Object(object))
  };
}

module.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;
}

module.exports = baseGet;

function castPath(value, object) {
  if (isArray(value)) {
    return value;
  }
  return isKey(value, object) ? [value] : stringToPath(toString(value));
}

module.exports = castPath;

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'use strict';

/*<replacement>*/

var pna = require('process-nextick-args');
/*</replacement>*/

module.exports = Readable;

/*<replacement>*/
var isArray = require('isarray');
/*</replacement>*/

/*<replacement>*/
var Duplex;
/*</replacement>*/

/*<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
should\n// write() some more.\n
Readable.prototype.push = function (chunk, encoding) {\n  var state =\n    this._readableState;\n  var skipChunkCheck;\n  if (!state.objectMode) {\n    if (typeof chunk === 'string') {\n      encoding = encoding || state.defaultEncoding;\n      if (encoding !== state.encoding) {\n        chunk = Buffer.from(chunk, encoding);\n        encoding = '';\n      }\n      skipChunkCheck = true;\n    } else if (state.skipChunkCheck) \n      return readableAddChunk(this, chunk, encoding, false, \n        skipChunkCheck);\n    }\n  // Unshift should *always* be something directly out of\n  read();\n
  function readableAddChunk(stream, state, chunk, addToFront, skipChunkCheck) {\n    var state =\n      stream._readableState;\n    if (chunk === null) {\n      state.reading = false;\n      onEofChunk(stream, state);\n    } else {\n      var er;\n      if (!skipChunkCheck) er = chunkInvalid(state, chunk);\n      if (er) {\n        stream.emit('error', er);\n      } else if (state.objectMode || chunk && chunk.length > 0) {\n        if (typeof chunk !== 'string' && !state.objectMode \n          && Object.getPrototypeOf(chunk) !== Buffer.prototype) {\n          chunk = _uint8ArrayToBuffer(chunk);\n          }\n
        if (addToFront) {\n          if (state.endEmitted) stream.emit('error', new Error('stream.unshift() after end event'));\n          else \n            addChunk(stream, state, chunk, true);\n        } else if (state.ended) {\n          stream.emit('error', new Error('stream.push() after EOF'));\n        } else \n          addChunk(stream, state, chunk, false);\n      } else if (addToFront) \n        state.buffer.unshift(chunk);\n      } else {\n        state.buffer.push(chunk);\n        }\n      if (state.reading && state.length === 0 && !state.sync) {\n        stream.emit('data', chunk);\n        stream.read(0);\n      } else {\n          // update the\n          buffer info.\n      state.length += state.objectMode ? 1 : chunk.length;\n      if (addToFront) \n          state.buffer.head.data.length;\n      else \n        state.buffer.push(chunk);\n    }\n    return needMoreData(state);\n  }\n
  function chunkInvalid(state, chunk) {\n    var er;\n    if (!_isUint8Array(chunk) \n      && typeof chunk !== 'string' && chunk !== undefined && \n        !state.objectMode) {\n      er = new TypeError('Invalid\n        non-string/buffer chunk');\n    }\n    return er;\n  }\n
  // if it's past the high water mark, we can push in some more.\n  // Also, if we have no data yet, we can stand some\n  // more bytes. This is to work around cases where hwm=0,\n  // such as the repl. Also, if the push() triggered an\n  // readable event, and the user called read(largeNumber) such\n  // that\n  // needReadable was set, then we ought to push more, so that another\n  // 'readable' event will be\n  // triggered.\n  function needMoreData(state) {\n    return !state.ended && \n      (state.needReadable || state.length < state.highWaterMark);\n  }\n
  function howMuchToRead(n, state) {\n    if (n <= 0 || state.ended || state.length >= state.highWaterMark) return 0;\n    if (n !== n) {\n      // Only flow one buffer at a time\n      if (state.reading && state.length) return \n          state.buffer.head.data.length;\n      else \n        return 0;\n    }\n    if (n > state.length) return state.length;\n    if (n <= state.length) return n;\n    if (n >= state.length) return \n          state.buffer.head.data.length;\n
  }\n
  // you can override either this method, or the async _read(n)\n  // below.\n
  function readableAddChunk(stream, state, chunk, encoding) {\n    var state =\n      this._readableState;\n    var nOrigin = n;\n    if (n !== 0) state.emitReadAhead = false;\n    if (n !== 0 && state.ended) \n      return readableAddChunk(this, chunk, encoding, false, \n        skipChunkCheck);\n  }\n
  function onEofChunk(stream, state) {\n    state.reading = false;\n    state.ended = true;\n    state.needReadable = false;\n    state.highWaterMark = state.buffer.length;\n    emitReadable(stream);\n    if (state._uncork) state._uncork();\n    if (state.autoDestroy && state.length === 0) \n      state.emittedHttpMessage = true;\n  }\n
  function emitReadable(stream) {\n    var state =\n      this._readableState;\n    state.needReadable = false;\n    state.emittedReadable = true;\n    state.reading = false;\n    state.sync = false;\n    state.length = state.buffer.length;\n    emitReadableHolder(stream);\n  }\n
  function emitReadableHolder(stream) {\n    var state =\n      this._readableState;\n    state.reading = false;\n    state.sync = false;\n    if (!state.ended) \n      state.needReadable = true;\n
    if (state.length) \n      stream.emit('data', \n          state.buffer.shift());\n    else \n      stream.emit('end');\n  }\n
  function InputStream(state, stream) {\n    var self = this;\n    self.buffer = \n      state.buffer || new Buffer(0);\n    self.length = state.buffer.length;\n    self.socket = stream;\n    self.autoDestroy = state.autoDestroy;\n    \n    function closeStream() {\n      stream.emit('close');\n      stream.end();\n    }\n
    state.autoDestroy ? \n      stream.on('end', closeStream) : \n      stream.on('close', closeStream);\n  }\n
  // backwords compatibility\n
  function decode(stream, state, string, encoding, \n    isEncoding, fromObjectMode) {\n    return state.objectMode ? \n          state.buffer.push(string) : \n          Stream.prototype.decode.call(stream, state, string, \n            encoding, isEncoding, fromObjectMode);\n  }\n
  function IdentityStreamReadable() {\n    return \n      new Stream.Readable({\n        objectMode: true,\n      }, \n        function (chunk, encoding, cb) {\n          cb(null, chunk);\n        });\n  }\n
  function decodeInto(state, buffer, string, encoding) {\n    return state.objectMode ? \n        buffer.push(string) : \n        decode.call(null, state, buffer, string, encoding);\n  }\n
  function stringizing(state, encoding) {\n    return state.objectMode ? \n          state.buffer.toString() : \n          state.buffer.toString(encoding);\n  }\n
  function _isUint8Array(chunk) {\n    return chunk instanceof Uint8Array;\n  }\n
  function _uint8ArrayToBuffer(chunk) {\n    return new Buffer(chunk.buffer);\n  }\n
  function strlength(str) {\n    return StringDecoder.encode(str).length;\n  }\n
  function strictNanError(msg) {\n    throw new TypeError(msg);\n  }\n
  function strictNaN(a) {\n    if (a >= 0 || a <= -0) return a;\n  }
this.lastNeed; 
this.lastNeed = 0; 
} else { 
  \n  i = 0; 
  } 
  if (i < buf.length) return r + this.text(buf, i); 
} 
this.text(buf, i);

return r; 

\n
\n
Utf8Text.prototype.end = utf8End; \n
// Attempts to complete a partial non-UTF-8 character using bytes from a Buffer.

Utf8StringDecoder.prototype.fillLast = function (buf) { 
  \n  if (this.lastNeed <= buf.length) { 
    buf.copy(this.lastChar, this.lastTotal - this.lastNeed, 0, this.lastNeed); 
    return this.lastChar.toString(this.encoding, 0, this.lastTotal); 
  } 
  buf.copy(this.lastChar, this.lastTotal - this.lastNeed, 0, buf.length); 
  this.lastTotal -= buf.length; 
  \n  // 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.

Utf8CheckByte(buf); 

if (!utf8CheckByte(buf)) { 
  \n  \n  var nb = utf8CheckExtraBytes(buf, 0); 
  \n  if (nb === 0) { 
    \n    \n    if (self.lastNeed > 1) { 
      if ((buf[1] & 0xC0) !== 0x80) { 
        self.lastNeed = 2; 
        return '\ufffd'; 
      } 
      if (self.lastNeed > 2) { 
        if ((buf[2] & 0xC0) !== 0x80) { 
          self.lastNeed = 3; 
          return '\ufffd'; 
        } 
      } 
    } 
    return nb; 
  } 
  \n  return nb; 
  \n  return '\ufffd'; 
  \n  // Validates as many continuation bytes for a multi-byte UTF-8 character
  // needed or are available. 
  \n  \n  buf.copy(this.lastChar, p, 0, buf.length); 
  this.lastNeed -= buf.length; 
}; 

// Checks the type of a UTF-8 byte, whether it's ASCII, a leading

// character or a continuation byte. If an invalid byte is detected, -2 is returned.

Utf8CheckByte(buf); 

if (!utf8CheckByte(buf)) { 
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        return '\ufffd'; 
      } 
      if (self.lastNeed > 2) { 
        if ((buf[2] & 0xC0) !== 0x80) { 
          self.lastNeed = 3; 
          return '\ufffd'; 
        } 
      } 
    } 
    return nb; 
  } 
  \n  return nb; 
  \n  return '\ufffd'; 
  \n  // Attempts to complete a multi-byte UTF-8 character using bytes from a Buffer.

Utf8FillLast(buf) { 
  \n  var r = utf8CheckExtraBytes(buf, 0); 
  \n  if (r !== undefined) return r; 
  \n  return this.lastChar.toString(this.encoding, 0, this.lastTotal); 
} 

// Returns all complete UTF-8 characters in a Buffer. If the Buffer ended on a partial

// character, the character's bytes are buffered until the required number of bytes are available.

Utf8Text(buf, i) { 
  \n  var total = utf8CheckIncomplete(buf, 0, 0); 
  \n  \n  if (buf[0] & 0xC0) { 
    \n    \n    if (self.lastNeed > 1) { 
      if ((buf[1] & 0xC0) !== 0x80) { 
        self.lastNeed = 2; 
        return '\ufffd'; 
      } 
      if (self.lastNeed > 2) { 
        if ((buf[2] & 0xC0) !== 0x80) { 
          self.lastNeed = 3; 
          return '\ufffd'; 
        } 
      } 
    } 
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  \n  var r = utf8CheckExtraBytes(buf, 0); 
  \n  if (r !== undefined) return r; 
  \n  return this.lastChar.toString(this.encoding, 0, this.lastTotal); 
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        return '\ufffd'; 
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          return '\ufffd'; 
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  \n  return this.lastChar.toString(this.encoding, 0, this.lastTotal); 
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        return '\ufffd'; 
      } 
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          self.lastNeed = 3; 
          return '\ufffd'; 
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  \n  if (r !== undefined) return r; 
  \n  return this.lastChar.toString(this.encoding, 0, this.lastTotal); 
} 

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      if ((buf[1] & 0xC0) !== 0x80) { 
        self.lastNeed = 2; 
        return '\ufffd'; 
      } 
      if (self.lastNeed > 2) { 
        if ((buf[2] & 0xC0) !== 0x80) { 
          self.lastNeed = 3; 
          return '\ufffd'; 
        } 
      } 
    } 
    return nb; 
  } 
  \n  return nb; 
  \n  return '\ufffd'; 
  \n  // Attempts to complete a multi-byte UTF-8 character using bytes from a Buffer.
buf[buf.length - 1];
} return buf.toString('base64', i, buf.length - n);

function base64End(buf) {
  var r = buf && buf.length ? this.write(buf) : "\n  if (this.lastNeed) return r + this.lastChar.toString('base64', 0, 3 - this.lastNeed);
  return r;\n}\n// 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) : '';
}

// Pass bytes on through for single-byte encodings (e.g. ascii, latin1, hex)

// a transform stream is a readable/writable stream where you do something with the data. Sometimes it's called a "filter", but that's not a great name for it, since that implies a thing where some bits pass through, and others are simply ignored. (That would be a valid example of a transform, of course.)

// The Transform stream has all the aspects of the readable and writable stream classes. When you write(chunk), that calls _write(chunk,cb) internally, and returns false if there's a lot of pending writes buffered up. When you call read(), that calls _read(n) until there's enough pending readable data buffered up. In a transform stream, the written data is placed in a buffer. When _read(n) is called, it transforms the queued up data, calling the readcb, and subsequent chunks just go into the read buffer, and will cause it to emit 'readable' if necessary.

// This way, back-pressure is actually determined by the reading side, since _read has to be called to start processing a new chunk. However, a pathological inflate type of transform can cause excessive buffering here. For example, a zlib stream might take multiple plain-text writes(), and then emit a single compressed chunk some time in the future. Here's how this works:

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null,"writeencoding: null
};// start out asking for a readable event once data is transformed.

this._ 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.

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('prefinish', prefinish);//

function prefinish() {

var this = this; // else

function done(stream, err, data) {

if (err) return stream.emit('error', err);

if (data != null) // single equals check for both`null` and `undefined`

stream.push(data);

if (stream._writableState.length) throw new Error('Calling transform done
when ws.length != 0');

if (stream._transformState.transforming) throw new Error('Calling transform done
when stream is still transforming');

return stream.push(null);
}

Transform.prototype._write = function (chunk, encoding, cb) {

var ts = this._transformState;

ts.writecb = cb;

ts.writechunk = chunk;

ts.writeencoding = encoding;

if (!ts.transforming) {

var rs = this._readableState;

if (ts.needTransform || rs.needReadable || rs.length < rs.highWaterMark) this._read(rs.highWaterMark);
}

if (!this._transformState.needTransform) return Duplex.prototype.push.call(this, chunk, encoding);


//////////////////
// WEBPACK FOOTER

"/node_modules/readable-stream/lib/_stream_transform.js

var isValue = require("./is-value");

var forEach = Array.prototype.forEach, create = Object.create;

var process = function (src, obj) {

var key;

for (key in src) obj[key] = src[key];
}

module.exports = function (opts1 /*, …options*/) {

var result = create(null);

forEach.call(arguments, function (options) {

if (!isValue(options))

return;

process(Object(options), result);

});

return result;
}


function done(stream, err, data) {

if (err) return stream.emit('error', err);

if (data != null) // single equals check for both`null` and `undefined`

stream.push(data);

if (stream._writableState.length) throw new Error('Calling transform done
when ws.length != 0');

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Transform.prototype._write = function (chunk, encoding, cb) {

var ts = this._transformState;

ts.writecb = cb;

ts.writechunk = chunk;

ts.writeencoding = encoding;

if (!ts.transforming) {

var rs = this._readableState;

if (ts.needTransform || rs.needReadable || rs.length < rs.highWaterMark) this._read(rs.highWaterMark);
}

if (!this._transformState.needTransform) return Duplex.prototype.push.call(this, chunk, encoding);


//////////////////
// WEBPACK FOOTER

"/node_modules/es5-ext/object/assign/index.js

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) {
    // ES6
    desc = { configurable: true, writable: false, enumerable: false, value: 1 }
    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");
    defineProperty = function (fn, length) {
        length = toPosInt(length);
        return fn.apply(this, arguments);
    };
}

getOwnPropertyDescriptor = Object.getOwnPropertyDescriptor

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;
    return target;
};

isPromise = function (obj) {
    return !!obj && (typeof obj === 'object' || typeof obj === 'function') && typeof obj.then === 'function';
}

parseYamlConfig = (yaml, system) => {
    try {
        return YAML.safeLoad(yaml)
    } catch(e) {
        if (system)
            system.errActions.newThrownErr( new Error(e) )
        return {}
    }
}

JS-YAML is not such strict as defined in the YAML specification. It allows numbers in binary notation, use 'Null' and 'NULL' as 'null', etc. For backward compatibility, we use strict 'null' on invalid value:

YAML's Core schema.

import YAML from '@kyleshockey/js-yaml'

export const UPDATE_CONFIGS = "configs_update"
export const TOGGLE_CONFIGS = "configs_toggle"

export function update(configName, configValue) {
    return {
        type: UPDATE_CONFIGS,
        configName, configValue
    };
}

export function toggle(configName) {
    return {
        type: TOGGLE_CONFIGS,
        configName,
    };
}

export function updateAll(configs) {
    return {
        type: UPDATE_CONFIGS,
        configs
    };
}

export function toggleAll(configs) {
    return {
        type: TOGGLE_CONFIGS,
        configs
    };
}
toAbsoluteIndex = require('./_to-absolute-index');

module.exports = function (IS_INCLUDES) {
  return function ($this, el, fromIndex) {
    var O = toIObject($this);
    var length = toLength(O.length);
    var index = toAbsoluteIndex(fromIndex, length);
    var value;
    // Array#includes uses SameValueZero equality algorithm
    // eslint-disable-next-line no-self-compare
    if (IS_INCLUDES && el != el) while (length > index) {
      value = O[index++];
      // eslint-disable-next-line no-self-compare
      if (value != value) return true;
    } else for (;length > index; index++) if (IS_INCLUDES || index in O) {
      if (O[index] === el) return IS_INCLUDES || index || 0;
    } return !IS_INCLUDES && -1;
  };"
var string

module.exports = function (it, S) {
  var fn, val;
  if (S && typeof (fn = it.toString) === 'function' && !isObject(val = fn.call(it))) return val; // throw TypeError("Can't convert object to primitive value");
  if (!S && typeof (fn = it.valueOf) === 'function' && !isObject(val = fn.call(it))) return val;
  throw TypeError("Can't convert object to primitive value");
};


// WEBPACK FOOTER
// ./node_modules/core-js/modules/_to-primitive.js
// module id = 225
// module chunks = 0

var create = require('./_object-create');
var descriptor = require('./_property-desc');
var setToStringTag = require('./_set-to-string-tag');
var IteratorPrototype = {};

// 25.1.2.1.1 %IteratorPrototype%[@@iterator]()
require('./_hide')(IteratorPrototype, require('./_wks')('iterator'), function () {
  return this;
});

module.exports = function (Constructor, NAME, next) {
  Constructor.prototype = create(IteratorPrototype, { next: descriptor(Constructor, NAME, next) });
  setToStringTag(Constructor.prototype, NAME + 'Iterator');
};


// WEBPACK FOOTER
// ./node_modules/core-js/modules/_iter-create.js

var anObject = require('./_an-object');
var dPs = require('./_object-dps');
var enumBugKeys = require('./_enum-bug-keys');
var IE_PROTO = require('./_shared-key')('IE_PROTO');

// 19.1.2.2 / 15.2.3.5 Object.create(O [, Properties])
var createDict = function () {
  var iframe = require('./_dom-create')('iframe');
  var i = enumBugKeys.length;
  var lt = '<';
  var gt = '>';
  var iframeDocument = iframe.contentWindow.document;
  iframeDocument.open();
  iframeDocument.write(lt + 'script' + gt + 'document.F=Object' + lt + '/script' + gt);
  iframeDocument.close();
  createDict = iframeDocument.F;
  while (i--) delete createDict[PROTOTYPE][enumBugKeys[i]];
  return createDict();
};

module.exports = Object.create || function create(O, Properties) {
  var result;
  if (O !== null) {
    Empty[PROTOTYPE] = anObject(O);
    result = new Empty();
    Empty[PROTOTYPE] = null;
    // add "__proto__" for Object.getPrototypeOf polyfill
    result[IE_PROTO] = O;
  } else result = createDict();
  return Properties === undefined ? result : dPs(result, Properties);
};


// WEBPACK FOOTER
// ./node_modules/core-js/modules/_object-keys-internal.js

var cof = require('./_cof');
var toIObject = require('./_to-iobject');
var toLength = require('./_to-length');
var toAbsoluteIndex = require('./_to-absolute-index');

module.exports = function (object, names) {
  var O = toIObject(object);
  var i = 0;
  var result = [];
  var key;
  for (key in O) if (key != IE_PROTO) {
    var has = key in O ? hasOwnProperty.call(O, key) : false;
    if (has) {
      var proto = object['__proto__'] || object.constructor.prototype;
      if (proto && proto !== Object.prototype) result.push(key);
    }
  }
  return result;
};


// WEBPACK FOOTER
// ./node_modules/core-js/modules/_iobject.js

$export.F * require('./_fails-is-regexp')(STARTS_WITH), 'String', {\n startsWith: function startsWith(searchString
/* , position = 0 */) {\n var that = context(this, searchString, STARTS_WITH);\n var index =
toLength(Math.min(arguments.length > 1 ? arguments[1] : undefined, that.length));\n var search =
String(searchString);\n return $startsWith\n
? $startsWith.call(that, search, index)\n
: that.slice(index, index
+ search.length) === search;\n }\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/corejs/modules/es6.string.starts-with.js\n// module id = 262\n// module chunks = 0","'use strict';\n// B.2.3.2
String.prototype.anchor(name)\nrequire('./_string-html')('anchor', function (createHTML) {\n return function
anchor(name) {\n return createHTML(this, 'a', 'name', name);\n };\n});\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/core-js/modules/es6.string.anchor.js\n// module id = 263\n// module chunks = 0","'use
strict';\n// B.2.3.3 String.prototype.big()\nrequire('./_string-html')('big', function (createHTML) {\n return function
big() {\n return createHTML(this, 'big', '', '');\n };\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/modules/es6.string.big.js\n// module id = 264\n// module chunks = 0","'use strict';\n//
B.2.3.4 String.prototype.blink()\nrequire('./_string-html')('blink', function (createHTML) {\n return function blink()
{\n return createHTML(this, 'blink', '', '');\n };\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/modules/es6.string.blink.js\n// module id = 265\n// module chunks = 0","'use strict';\n//
B.2.3.5 String.prototype.bold()\nrequire('./_string-html')('bold', function (createHTML) {\n return function bold()
{\n return createHTML(this, 'b', '', '');\n };\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/modules/es6.string.bold.js\n// module id = 266\n// module chunks = 0","'use strict';\n//
B.2.3.6 String.prototype.fixed()\nrequire('./_string-html')('fixed', function (createHTML) {\n return function fixed()
{\n return createHTML(this, 'tt', '', '');\n };\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/modules/es6.string.fixed.js\n// module id = 267\n// module chunks = 0","'use strict';\n//
B.2.3.7 String.prototype.fontcolor(color)\nrequire('./_string-html')('fontcolor', function (createHTML) {\n return
function fontcolor(color) {\n return createHTML(this, 'font', 'color', color);\n };\n});\n\n\n\n//////////////////\n//
WEBPACK FOOTER\n// ./node_modules/core-js/modules/es6.string.fontcolor.js\n// module id = 268\n// module
chunks = 0","'use strict';\n// B.2.3.8 String.prototype.fontsize(size)\nrequire('./_string-html')('fontsize', function
(createHTML) {\n return function fontsize(size) {\n return createHTML(this, 'font', 'size', size);\n
};\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/modules/es6.string.fontsize.js\n//
module id = 269\n// module chunks = 0","'use strict';\n// B.2.3.9 String.prototype.italics()\nrequire('./_stringhtml')('italics', function (createHTML) {\n return function italics() {\n return createHTML(this, 'i', '', '');\n
};\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/modules/es6.string.italics.js\n//
module id = 270\n// module chunks = 0","'use strict';\n// B.2.3.10 String.prototype.link(url)\nrequire('./_stringhtml')('link', function (createHTML) {\n return function link(url) {\n return createHTML(this, 'a', 'href', url);\n
};\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/modules/es6.string.link.js\n//
module id = 271\n// module chunks = 0","'use strict';\n// B.2.3.11 String.prototype.small()\nrequire('./_stringhtml')('small', function (createHTML) {\n return function small() {\n return createHTML(this, 'small', '', '');\n
};\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/modules/es6.string.small.js\n//
module id = 272\n// module chunks = 0","'use strict';\n// B.2.3.12 String.prototype.strike()\nrequire('./_stringhtml')('strike', function (createHTML) {\n return function strike() {\n return createHTML(this, 'strike', '', '');\n
};\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/modules/es6.string.strike.js\n//
module id = 273\n// module chunks = 0","'use strict';\n// B.2.3.13 String.prototype.sub()\nrequire('./_stringhtml')('sub', function (createHTML) {\n return function sub() {\n return createHTML(this, 'sub', '', '');\n
};\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/modules/es6.string.sub.js\n//
module id = 274\n// module chunks = 0","'use strict';\n// B.2.3.14 String.prototype.sup()\nrequire('./_stringhtml')('sup', function (createHTML) {\n return function sup() {\n return createHTML(this, 'sup', '', '');\n
};\n});\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/modules/es6.string.sup.js\n//
module id = 275\n// module chunks = 0","// @@match logic\nrequire('./_fix-re-wks')('match', 1, function (defined,
MATCH, $match) {\n // 21.1.3.11 String.prototype.match(regexp)\n return [function match(regexp) {\n 'use
strict';\n var O = defined(this);\n var fn = regexp == undefined ? undefined : regexp[MATCH];\n return fn !==

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import React from "react"
import PropTypes from "prop-types"

export default class StandaloneLayout extends React.Component {

  static propTypes = {
    errSelectors: PropTypes.object.isRequired,
    errActions: PropTypes.object.isRequired,
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    layoutActions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    let { getComponent } = this.props
    let Container = getComponent("Container")
    let Row = getComponent("Row")
    let Col = getComponent("Col")
    let OnlineValidatorBadge = getComponent("onlineValidatorBadge")

    return (
      <Container className='swagger-ui'>
        {Topbar ? <Topbar /> : null}
        <BaseLayout />
        <Row>
          <Col>
            <OnlineValidatorBadge />
          </Col>
        </Row>
      </Container>
    )
  }
}


require('../../modules/es6.object.get-prototype-of');
module.exports = require('../../modules/_core').Object.getPrototypeOf;


var toObject = require('./_to-object');
var $getPrototypeOf = require('./_object-gpo');

require('./_object-sap')('getPrototypeOf', function () {
  return function getPrototypeOf(it) {
    return $getPrototypeOf(toObject(it));
  };
});


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 global = require('./_global');
var has = require('./_has');
var DESCRIPTORS = require('./_descriptors');
var $export = require('./_export');
var redefine = require('./_redefine');
var META = require('./_meta').KEY;
var $fails = require('./_fails');
var anObject = require('./_an-object');


ReactElement.createFactory

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---

This really simplifies the code: *\n
---

@ * This can be used to log issues in development environments in critical paths. Removing
the logging code for production environments will keep the \n same logic and follow the same code paths.  

```javascript
var lowPriorityWarning = function() {}

if (process.env.NODE_ENV !== 'production') {
  var printWarning = function(format, ...args) {
    for (var _len = arguments.length, args_ = Array(_len), _key = 0; _key < _len; _key++) {
      args[_key] = arguments[_key];
    }

    var argIndex = 0;
    var message = 'Warning: ' + format.replace(/%s/g, function() {
      return args[argIndex++];
    });
    if (typeof console !== 'undefined') {
      console.warn(message);
    }
    try {
      // --- Welcome to debugging React ---
      throw new Error(message);
    } catch (x) {}
  }

  lowPriorityWarning = function(condition, format, ...args) {
    if (format === undefined) {
      throw new Error('`warning(condition, format, ...args)` requires a ' + 'warning message argument');
    }
    if (!condition) {
      for (var _len2 = arguments.length, args_2 = Array(_len2 - 2), _key2 = 2; _key2 < _len2; _key2++) {
        args_2[_key2 - 2] = arguments[_key2];
      }

      printWarning.apply(undefined, [format].concat(args_2));
    }
  };
}

module.exports = lowPriorityWarning;
```

```javascript
PooledClass = require('./PooledClass');
ReactElement = require('./ReactElement');

emptyFunction = require('fbjs/lib/emptyFunction');
traverseAllChildren = require('./traverseAllChildren');

twoArgumentPooler = PooledClass.twoArgumentPooler;
fourArgumentPooler = PooledClass.fourArgumentPooler;
userProvidedKeyEscapeRegex = /\/+/g;
function escapeUserProvidedKey(text) {
  return ('' + text).replace(userProvidedKeyEscapeRegex, '$&/');
}

forEachSingleChild = function(bookKeeping, child, name) {
  var func = bookKeeping.func,
      context = bookKeeping.context;

  func.call(context, child, bookKeeping.count++);
}

forEachChildren = function(children, forEachFunc, forEachContext) {
  if (children == null) {
    return children;
  }
  var traverseContext = ForEachBookKeeping.getPooled(forEachFunc,
    forEachContext);
  traverseAllChildren(children, forEachSingleChild, traverseContext);
  ForEachBookKeeping.release(traverseContext);
}

MapBookKeeping = function(mapResult, keyPrefix, mapFunction, mapContext) {
  this.result = mapResult;
  this.keyPrefix = keyPrefix;
  this.func = mapFunction;
  this.context = mapContext;

  this.count = 0;
}

mapIntoWithKeyPrefixInternal = function(mappedChild, result, key)
```

```javascript
PooledClass = require('./PooledClass');
ReactElement = require('./ReactElement');

emptyFunction = require('fbjs/lib/emptyFunction');
traverseAllChildren = require('./traverseAllChildren');

twoArgumentPooler = PooledClass.twoArgumentPooler;
fourArgumentPooler = PooledClass.fourArgumentPooler;
userProvidedKeyEscapeRegex = /\/+/g;
function escapeUserProvidedKey(text) {
  return ('' + text).replace(userProvidedKeyEscapeRegex, '$&/');
}

forEachSingleChild = function(bookKeeping, child, name) {
  var func = bookKeeping.func,
      context = bookKeeping.context;

  func.call(context, child, bookKeeping.count++);
}

forEachChildren = function(children, forEachFunc, forEachContext) {
  if (children == null) {
    return children;
  }
  var traverseContext = ForEachBookKeeping.getPooled(forEachFunc,
    forEachContext);
  traverseAllChildren(children, forEachSingleChild, traverseContext);
  ForEachBookKeeping.release(traverseContext);
}

MapBookKeeping = function(mapResult, keyPrefix, mapFunction, mapContext) {
  this.result = mapResult;
  this.keyPrefix = keyPrefix;
  this.func = mapFunction;
  this.context = mapContext;

  this.count = 0;
}
```

```javascript
function MapBookKeeping(mapResult, keyPrefix, mapFunction, mapContext) {
  this.result = mapResult;
  this.keyPrefix = keyPrefix;
  this.func = mapFunction;
  this.context = mapContext;
  this.count = 0;
}
```

```javascript
function MapBookKeeping(mapResult, keyPrefix, mapFunction, mapContext) {
  this.result = mapResult;
  this.keyPrefix = keyPrefix;
  this.func = mapFunction;
  this.context = mapContext;
  this.count = 0;
}
```

```javascript
function MapBookKeeping(mapResult, keyPrefix, mapFunction, mapContext) {
  this.result = mapResult;
  this.keyPrefix = keyPrefix;
  this.func = mapFunction;
  this.context = mapContext;
  this.count = 0;
}
```

```javascript
var keyPrefix = 'keyPrefix';
var this.func = mapFunction;
var this.context = mapContext;
var this.count = 0;
```
emptyFunction.thatReturnsArgument); } else if (mappedChild !== null) {
  if ((ReactElement.isValidElement(mappedChild))
    mappedChild = ReactElement.cloneAndReplaceKey(mappedChild,
    // Keep both the (mapped) and old keys if they differ, just as
    // traverseAllChildren used to do for objects as children
    keyPrefix + (mappedChild.key && (child || child.key !== mappedChild.key) ? escapeUserProvidedKey(mappedChild.key) + '/' : '') + childKey);
  result.push(mappedChild); 
}

function mapIntoWithKeyPrefixInternal(children, array, prefix, func, context)
{
  var escapedPrefix = '';
  if (prefix != null) {
    escapedPrefix = escapeUserProvidedKey(prefix) + '/';
  }
  var traverseContext = MapBookKeeping.getPooled(array, escapedPrefix, func, context);
  traverseAllChildren(children, func, 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
 *
 * The provided mapFunction(child, key, index) will be called for each
 * leaf child
 * Children tree container.
 * @param {function(*, int)} func The map function.
 * @param {*} context Context for mapFunction.
 * @return {object} Object containing the ordered map of results.
 */
function mapChildren(children, func, context) {
  if (children == null) {
    return children;
  }
  var result = [
    mapIntoWithKeyPrefixInternal(children, result, null, func, context);
  if (children !== null) {
    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
 *
 * @param {?*} children Children tree container.
 * @return {number} The number of 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.
 *
 * See https://facebook.github.io/react/docs/top-level-api.html#react.children.toArray
 */
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 307
// 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');

var invariant = require('fbjs/lib/invariant');

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;
  invariant(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;

var emptyFunction.thatReturnsArgument;
augmenting only the class itself (statically) not adding any prototypical fields. Any CopyConstructor * you give this may have a 'poolSize' property, and will look for a * prototypical 'destructor' on instances. * @param {Function} CopyConstructor Constructor that can be used to reset. * @param {Function} pooler Customizable pooler. * @var addPoolingTo = function (CopyConstructor, pooler) { * // Casting as any so that * flow ignores the actual implementation and trusts * // it to match the type we declared
 var NewKlass = CopyConstructor;
 NewKlass.instancePool = [];
 NewKlass.getPooled = pooler || DEFAULT_POOLER;
 if (!NewKlass.poolSize) { NewKlass.poolSize = DEFAULT_POOL_SIZE; }
 NewKlass.release = standardReleaser;
 return NewKlass; };

 var PooledClass = {
   addPoolingTo: addPoolingTo,
   oneArgumentPooler: oneArgumentPooler,
   twoArgumentPooler: twoArgumentPooler,
   threeArgumentPooler: threeArgumentPooler,
   fourArgumentPooler: fourArgumentPooler
 };
```javascript
var createDOMFactory = ReactElement.createFactory;

module.exports = createDOMFactory;
```

---

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createDOMFactory('var'),\n video: createDOMFactory('video'),\n wbr: createDOMFactory('wbr'),\n\n // SVG\n
circle: createDOMFactory('circle'),\n clipPath: createDOMFactory('clipPath'),\n defs: createDOMFactory('defs'),\n
ellipse: createDOMFactory('ellipse'),\n g: createDOMFactory('g'),\n image: createDOMFactory('image'),\n line:
createDOMFactory('line'),\n linearGradient: createDOMFactory('linearGradient'),\n mask:
createDOMFactory('mask'),\n path: createDOMFactory('path'),\n pattern: createDOMFactory('pattern'),\n polygon:
createDOMFactory('polygon'),\n polyline: createDOMFactory('polyline'),\n radialGradient:
createDOMFactory('radialGradient'),\n rect: createDOMFactory('rect'),\n stop: createDOMFactory('stop'),\n svg:
createDOMFactory('svg'),\n text: createDOMFactory('text'),\n tspan:
createDOMFactory('tspan')\n};\n\nmodule.exports = ReactDOMFactories;\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/react/lib/ReactDOMFactories.js\n// module id = 312\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 _require =
require('./ReactElement'),\n isValidElement = _require.isValidElement;\n\nvar factory = require('proptypes/factory');\n\nmodule.exports = factory(isValidElement);\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/react/lib/ReactPropTypes.js\n// module id = 313\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\n// React 15.5 references this module, and assumes
PropTypes are still callable in production.\n// Therefore we re-export development-only version with all the
PropTypes checks here.\n// However if one is migrating to the `prop-types` npm library, they will go through the\n//
`index.js` entry point, and it will branch depending on the environment.\nvar factory =
require('./factoryWithTypeCheckers');\nmodule.exports = function(isValidElement) {\n // It is still allowed in
15.5.\n var throwOnDirectAccess = false;\n return factory(isValidElement,
throwOnDirectAccess);\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/proptypes/factory.js\n// module id = 314\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 emptyFunction = require('fbjs/lib/emptyFunction');\nvar invariant =
require('fbjs/lib/invariant');\nvar warning = require('fbjs/lib/warning');\nvar assign = require('object-assign');\n\nvar
ReactPropTypesSecret = require('./lib/ReactPropTypesSecret');\nvar checkPropTypes =
require('./checkPropTypes');\n\nmodule.exports = function(isValidElement, throwOnDirectAccess) {\n /* global
Symbol */\n var ITERATOR_SYMBOL = typeof Symbol === 'function' && Symbol.iterator;\n var
FAUX_ITERATOR_SYMBOL = '@@iterator'; // Before Symbol spec.\n\n /**\n * Returns the iterator method
function contained on the iterable object.\n *\n * Be sure to invoke the function with the iterable as context:\n
*\n * var iteratorFn = getIteratorFn(myIterable);\n * if (iteratorFn) {\n *
var iterator =
iteratorFn.call(myIterable);\n *
...\n * }\n *\n * @param {?object} maybeIterable\n * @return
{?function}\n */\n function getIteratorFn(maybeIterable) {\n var iteratorFn = maybeIterable &&
(ITERATOR_SYMBOL && maybeIterable[ITERATOR_SYMBOL] ||
maybeIterable[FAUX_ITERATOR_SYMBOL]);\n if (typeof iteratorFn === 'function') {\n
return iteratorFn;\n
}\n }\n\n /**\n * Collection of methods that allow declaration and validation of props that are\n * supplied to
React components. Example usage:\n *\n * var Props = require('ReactPropTypes');\n * var MyArticle =
React.createClass({\n * propTypes: {\n *
// An optional string prop named \"description\".\n *
description: Props.string,\n *\n *
// A required enum prop named \"category\".\n *
category:
Props.oneOf(['News','Photos']).isRequired,\n *\n *
// A prop named \"dialog\" that requires an instance of
Dialog.\n *
dialog: Props.instanceOf(Dialog).isRequired\n * },\n * render: function() { ... }\n * });\n
*\n * A more formal specification of how these methods are used:\n *\n * type :=
array|bool|func|object|number|string|oneOf([...])|instanceOf(...)\n * decl :=
ReactPropTypes.{type}(.isRequired)?\n *\n * Each and every declaration produces a function with the same
signature. This\n * allows the creation of custom validation functions. For example:\n *\n * var MyLink =
React.createClass({\n * propTypes: {\n *
// An optional string or URI prop named \"href\".\n *
href:

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function(props, propName, componentName) {
  var propValue = props[propName];
  if (propValue != null && typeof propValue !== 'string' && !(propValue instanceof URI))
    return new Error('Expected a string or an URI for ' + propName + ' in ' + componentName + ' ');
}

var AnyTypeChecker = function() {
  return this;
};

var ANONYMOUS = '<<anonymous>>';

// Important!
// Keep this list in sync with production version in
'./factoryWithThrowingShims.js'.

var ReactPropTypes = {
  array: createPrimitiveTypeChecker('array'),
  bool: createPrimitiveTypeChecker('boolean'),
  func: createPrimitiveTypeChecker('function'),
  number: createPrimitiveTypeChecker('number'),
  object: createPrimitiveTypeChecker('object'),
  string: createPrimitiveTypeChecker('string'),
  symbol: createPrimitiveTypeChecker('symbol'),

  any: createAnyTypeChecker(),
  arrayOf: createArrayOfTypeChecker,
  element: createElementTypeChecker(),
  instanceOf: createInstanceTypeChecker,
  node: createNodeChecker(),
  objectOf: createObjectOfTypeChecker,
  oneOf: createEnumTypeChecker,
  oneOfType: createUnionTypeChecker,
  shape: createShapeTypeChecker,
  exact: createStrictShapeTypeChecker
};

/**
 * inlined Object.is polyfill to avoid requiring consumers ship their own
 */

function is(x, y) {
  // SameValue algorithm
  if (x === y) {
    // Steps 1-5, 7-10
    // Steps 6.b-6.e: +0 != -0
    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 them anyway, and creating them
 * is prohibitively expensive if they are created too often,
 * such as what `null` happens in oneOfType() for any type before the one that matched.
 */

function PropTypeError(message) {
  this.message = message;
  this.stack = '';
}

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
        // `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') {
        // Old behavior for people using React.PropTypes
        var cacheKey = componentName + ':' + propName;
        if (!manualPropTypeCallCache[cacheKey] &&
            // Avoid spamming the console because they are often not actionable except for lib authors
            manualPropTypeWarningCount < 3)
          manualPropTypeWarningCount++;
        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.',
          propFullName, componentName
        );
      } else if (process.env.NODE_ENV !== 'production') {
        if (throwOnDirectAccess) {
          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') {
        // Old behavior for people using React.PropTypes
        var cacheKey = componentName + ':' + propName;
        if (cacheKey !== null) {
          return createChainableTypeChecker(validate)
            if (isRequired) {
              return validate(props, propName, componentName, location, propFullName, null);
            } else {
              return validate(props, propName, componentName, location, propFullName, null);
            }
        } else {
          return createChainableTypeChecker(validate); // Default implementation should only ever be called
        }
      }
    }
    if (props[propName] == null) {
      if (isRequired) {
        return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required ' +
          'in `' + componentName + '`, but its value is `null`.' +
          'You are probably trying to use `props.' +
          propName + '` instead of `state.' +
          propName + '` or `context.' +
          propName + '`. See https://fb.me/react-warning-dont-call-proptypes ' +
          'for details.');
      }
      return null;
    } else {
      return validate(props, propName, componentName, location, propFullName, null);
    }
  }

  var invariant = require('invariant');
  return checkType.bind(null, false);
propType = getPropType(propValue);
if (propType !== expectedType) {
  // `propValue` being instance of, say, date/regexp, pass the `object
  // check, but we can offer a more precise error message here rather than
  // 'of type `object`':
  var preciseType = getPreciseType(propValue);
  return new PropTypeError('Invalid `+ location + `' + propFullName + `' of type `' + ("" + preciseType + "").supplied to `' + componentName + `' expected `' + expectedType + `.");
}
return null;
}

function createChainableTypeChecker(validate) {
  return createChainableTypeChecker(validate);
}

function createAnyTypeChecker() {
  return createChainableTypeChecker(emptyFunction.thatReturnsNull);
}

function createArrayOfTypeChecker(typeChecker) {
  function validate(props, propName, componentName, location, propFullName) {
    if (!Array.isArray(props[propName])) {
      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);
  }
  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 `' + ("" + propType + "").supplied to `' + componentName + `' expected instance of `' + expectedClassName + `' expected an instance ofatsu className + ", expected `);)
    }
    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 emptyFunction.thatReturnsNull;
  }
  var expectedClassName = expectedClass.name || ANONYMOUS;
  for (var i = 0; i < expectedValues.length; i++) {
    if (is(propValue, expectedValues[i])) {
      return null;
    }
  }
  var valuesString = JSON.stringify(expectedValues);
  return new PropTypeError('Invalid `+ location + `' + propFullName + `' of value `' + propValue + `" + ("" + propType + ") supplied to ` + ("" + propType + "").supplied to ` + componentName + ", expected one of ` + valuesString + `.");
}
  return createChainableTypeChecker(validate);
}

function createObjectOfTypeChecker(typeChecker) {
  function validate(props, propName, componentName, location, propFullName) {
    if (!Array.isArray(props[propName])) {
      var propValue = props[propName];
      var propType = getPropType(propValue);
      if (propType !== 'object') {
        return new PropTypeError('Invalid `+ location + `' + propFullName + `' of type `' + ("" + propType + "").supplied to `' + componentName + `' expected an object.);)
      }
      for (var key in propValue) {
        if (propValue.hasOwnProperty(key)) {
          var error = typeChecker(propValue, key, componentName, location, propFullName + '.' + key, ReactPropTypesSecret);
          if (error instanceof Error) {
            return error;
          }
        }
      }
      return null;
    }
    return createChainableTypeChecker(validate);
  }
  return createChainableTypeChecker(validate);
}

function createUnionTypeChecker(arrayOfTypeCheckers) {
  if (!Array.isArray(arrayOfTypeCheckers)) {
    process.env.NODE_ENV !== 'production' ? warning(false, 'Invalid argument supplied to oneOfType, expected an instance of array.') : void 0;
    return emptyFunction.thatReturnsNull;
  }
  for (var i = 0; i < arrayOfTypeCheckers.length; i++) {
    if (Array.isArray(arrayOfTypeCheckers[i])) {
      var checker = arrayOfTypeCheckers[i];
      if (is(checker, expectedClass)) {
        return null;
      }
    }
  }
  return new PropTypeError('Invalid `+ location + `' + propFullName + `' of type `);)
}

function createUnionTypeChecker(arrayOfTypeCheckers) {
  if (!Array.isArray(arrayOfTypeCheckers)) {
    process.env.NODE_ENV !== 'production' ? warning(false, 'Invalid argument supplied to oneOfType, expected an instance of array.') : void 0;
    return emptyFunction.thatReturnsNull;
  }
  for (var i = 0; i < arrayOfTypeCheckers.length; i++) {
    if (Array.isArray(arrayOfTypeCheckers[i])) {
      var checker = arrayOfTypeCheckers[i];
      if (is(checker, expectedClass)) {
        return null;
      }
    }
  }
  return new PropTypeError('Invalid `+ location + `' + propFullName + `' of type `);)
}
argument supplied to oneOfType. Expected an array of check functions, but \+ received %s at index %s.\+ 

getPostfixForTypeWarning(checker),
    }\n    return emptyFunction.thatReturnsNull;\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      return new PropTypeError('Invalid \+ location \+ ``` + propFullName + ``` supplied to \+ ``` + componentName + ```');\n    }\n    return createChainableTypeChecker(validate);\n}\n
\n
\n
createNodeCheckers = createPropTypesCheckers(propType);\n    function validate(props, propName, componentName, location, propFullName) {\n      if (!isNode(props[propName])) {\n        return new PropTypeError('Invalid \+ location \+ ``` + propFullName + ``` of type `node` supplied to ``` + componentName + ```');\n      }\n      return checkPropTypes(propType, props, componentName, location, propFullName, ReactPropTypesSecret);\n    }\n    return createChainableTypeChecker(validate);\n}\n
\n
\n
\n
\n
\n
// This handles more
types than `getPropType`. Only used for error messages. 

```javascript
function getPreciseType(propValue) {
  if (typeof propValue === 'undefined' || propValue === null) {
    return '' + propValue;
  }
  var propType = getPropType(propValue);
  if (propType === 'object') {
    if (propValue instanceof Date) {
      return 'date';
    } else if (propValue instanceof RegExp) {
      return 'regexp';
    }
  }
  return propType;
}
```

```javascript
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;
  }
}
```

```javascript
function getClassName(propValue) {
  if (!propValue.constructor || !propValue.constructor.name) {
    return ANONYMOUS;
  }
  return propValue.constructor.name;
}
```

```javascript
ReactPropTypes.checkPropTypes = checkPropTypes;
ReactPropTypes.PropTypes = ReactPropTypes;
```

```javascript
module.exports = ReactPropTypes;
```

```javascript
ReactNoopUpdateQueue = require('./ReactNoopUpdateQueue');
factory = require('create-react-class/factory');

module.exports =
```
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factory(Component, isValidElement, ReactNoopUpdateQueue);
* Use this as an opportunity to react to a prop transition by updating the `this.setState`. Current props are accessed via `this.props`.

```javascript
componentWillReceiveProps: function(nextProps, nextContext) {
  if (nextProps.likeCount > this.props.likeCount) {
    this.setState({
      likesIncreasing: true
    });
  }

  NOTE: There is no equivalent `componentWillReceiveProps`. An incoming prop transition may cause a state change, but the opposite is not true. If you need it, you are probably looking for `componentWillUpdate`.

  componentWillReceiveProps: function(nextProps, nextContext) {
    this.setState({
      likesIncreasing: nextProps.likeCount > this.props.likeCount
    });
  }
}
```

Current props are accessed via `this.props`.

```javascript
componentWillReceiveProps: function(nextProps, nextContext) {
  this.setState({
    likesIncreasing: nextProps.likeCount > this.props.likeCount
  });
}
```

NOTE: There is no equivalent `componentWillReceiveState`. An incoming prop transition may cause a state change, but the opposite is not true. If you need it, you are probably looking for `componentWillUpdate`.

```javascript
shouldComponentUpdate: function(nextProps, nextState, nextContext) {
  return !equal(nextProps, this.props) ||
    !equal(nextState, this.state) ||
    !equal(nextContext, this.context);
}
```

NOTE: You cannot use `this.setState()` in this method.

```javascript
UNSAFE_componentWillReceiveProps: function(nextProps) {
  this.setState({
    likesIncreasing: nextProps.likeCount > this.props.likeCount
  });
}
```

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.

```javascript
componentWillMount: function() {
  // initialization code
}
```

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.

```javascript
componentWillUnmount: function() {
  // cleanup code
}
```

```
Invoked when the component is about to update due to a transition from the `this.props`, `this.state` and `this.context` to the `nextProps`, `nextState` and `nextContext`.

```javascript
shouldComponentUpdate: function(nextProps, nextState) {
  return !equal(nextProps, this.props) ||
    !equal(nextState, this.state);
}
```

```
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.

```javascript
componentWillUpdate: function(nextProps, nextState, nextContext) {
  // update DOM
}
```

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.

```javascript
UNSAFE_componentWillMount: function() {
  // initialization code
}
```

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.

```javascript
shouldComponentUpdate: function(nextProps) {
  return !equal(nextProps, this.props);
}
```

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.

```javascript
UNSAFE_componentWillReceiveProps: function(nextProps) {
  this.setState({
    likesIncreasing: nextProps.likeCount > this.props.likeCount
  });
}
```

Invoked when the component is about to update due to a transition from the `this.props`, `this.state` and `this.context` to the `nextProps`, `nextState` and `nextContext`.

```
componentWillReceiveProps: function(nextProps) {
  this.setState({
    likesIncreasing: nextProps.likeCount > this.props.likeCount
  });
}
```

NOTE: You cannot use `this.setState()` in this method.

```javascript
UNSAFE_componentWillUpdate: function(nextProps) {
  this.setState({
    likesIncreasing: nextProps.likeCount > this.props.likeCount
  });
}
```

Invoked when the component is about to update due to a transition from the `this.props`, `this.state` and `this.context` to the `nextProps`, `nextState` and `nextContext`.

```
shouldComponentUpdate: function(nextProps) {
  return !equal(nextProps, this.props);
}
```

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.

```javascript
UNSAFE_componentWillMount: function() {
  // initialization code
}
```

Invoked when the component is about to update due to a transition from the `this.props`, `this.state` and `this.context` to the `nextProps`, `nextState` and `nextContext`.

```
shouldComponentUpdate: function(nextProps) {
  return !equal(nextProps, this.props);
}
```

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.

```javascript
UNSAFE_componentWillReceiveProps: function(nextProps) {
  this.setState({
    likesIncreasing: nextProps.likeCount > this.props.likeCount
  });
}
```

Invoked when the component is about to update due to a transition from the `this.props`, `this.state` and `this.context` to the `nextProps`, `nextState` and `nextContext`.

```
shouldComponentUpdate: function(nextProps) {
  return !equal(nextProps, this.props);
}
```

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.

```javascript
UNSAFE_componentWillUpdate: function(nextProps) {
  this.setState({
    likesIncreasing: nextProps.likeCount > this.props.likeCount
  });
}
```

Invoked when the component is about to update due to a transition from the `this.props`, `this.state` and `this.context` to the `nextProps`, `nextState` and `nextContext`.

```
shouldComponentUpdate: function(nextProps) {
  return !equal(nextProps, this.props);
}
```

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.

```javascript
UNSAFE_componentWillMount: function() {
  // initialization code
}
```

Invoked when the component is about to update due to a transition from the `this.props`, `this.state` and `this.context` to the `nextProps`, `nextState` and `nextContext`.

```
shouldComponentUpdate: function(nextProps) {
  return !equal(nextProps, this.props);
}
```

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.

```javascript
UNSAFE_componentWillReceiveProps: function(nextProps) {
  this.setState({
    likesIncreasing: nextProps.likeCount > this.props.likeCount
  });
}
```

Invoked when the component is about to update due to a transition from the `this.props`, `this.state` and `this.context` to the `nextProps`, `nextState` and `nextContext`.

```
shouldComponentUpdate: function(nextProps) {
  return !equal(nextProps, this.props);
}
```

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.
childContextTypes, 'childContext');
 Constructor.childContextTypes = _assign({}, Constructor, childContextTypes);
 constructorTypes: function(Constructor, contextTypes) {
 if (process.env.NODE_ENV !== 'production') {
 validateTypeDef(Constructor, contextTypes, 'constructor');
 Constructor.constructorTypes = _assign({}, Constructor.constructorTypes, contextTypes);
 */
 /* Special case getDefaultProps which should move into statics but requires automatic merging.
 */
 Constructor.getDefaultProps = function(Constructor, getDefalutProps) {
 if (!Constructor.getDefaultProps) {
 Constructor.getDefaultProps = createMergedResultFunction(Constructor, getDefalutProps, getDefalutProps);
 } else {
 Constructor.getDefaultProps = getDefalutProps;
 }
 propTypes: function(Constructor, propTypes) {
 if (process.env.NODE_ENV !== 'production') {
 validateTypeDef(Constructor, propTypes, 'prop');
 Constructor.propTypes = _assign([], Constructor.propTypes, propTypes);
 }
 statics:
 function(Constructor, statics) {
 mixStaticSpecIntoComponent(Constructor, statics);
 };
 autobind:
 function() {}
 },
 function validateTypeDef(Constructor, typeDef, location) {
 for (var propName in typeDef) {
 // use a warning instead of an _invariant so components
 // don't show up in prod but only in _DEV_ when
 if (process.env.NODE_ENV !== 'production') {
 warning(
 typeof typeDef[propName] === 'function',
 '%s: %s type `%s` is invalid; it must be a function, usually from ' +
 'React.PropTypes.',
 Constructor.displayName || 'ReactClass',
 ReactPropTypeLocationNames[location],
 propName
 );
 }
 }
 var specPolicy = ReactClassInterface.hasOwnProperty(name) ? ReactClassInterface[name] : null;
 // Disallow overriding of base class methods unless explicitly allowed.
 if (ReactClassMixin.hasOwnProperty(name)) {
 _invariant(
 specPolicy === 'OVERRIDE_BASE',
 'ReactClassInterface: You are attempting to override ' +
 name + ' %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.
 if (isAlreadyDefined) {
 _invariant(
 specPolicy === 'DEFINE_MANY' || specPolicy === 'DEFINE_MANY_MERGED',
 'ReactClassInterface: You are attempting to define ' +
 name + ' \%s on your component more than once. This conflict may be due ' +
 'to a mixin.' +
 name + '.
 );
 // Mixin helper which handles policy validation and reserved specification keys when building React classes.
 *
 function mixSpecIntoComponent(Constructor, spec) {
 if (!spec) {
 if (process.env.NODE_ENV !== 'production') {
 warning(
 'ReactClass: You are attempting to use a component class or function as a mixin. Instead, just use a regular object.'
 );
 return;
 }
 _invariant(spec === 'function', 'ReactClass: You are attempting to use a component class or function as a mixin. Instead, just use a regular object.' +
 state.spec === 'function', 'ReactClass: You are attempting to use a component as a mixin. Instead, just use a regular object.');
 var proto = Constructor.prototype;
 // By handling mixins before any other properties, we ensure the same chaining order is applied to methods with DEFINE_MANY policy, whether or not mixins are listed before or after these methods in the spec.
 if (spec.hasOwnProperty(MIXINS_KEY)) {
 RESERVED_SPEC_KEYS.mixins(Constructor, spec.mixins); if (!name) {
 return;
 }
 _invariant(typeof spec === 'function', 'ReactClass: You are attempting to use a component class or function as a mixin. Instead, just use a regular object.' +
 state.spec === 'function', 'ReactClass: You are attempting to use a component as a mixin. Instead, just use a regular object.');
 if (name === MIXINS_KEY) { // We have already handled mixins in a special case above.
 continue;
 }
 var prop = Constructor.prototype; var autoBindPairs = proto._reactAutoBindPairs; // By handling mixins before any other properties, we ensure the same chaining order is applied to methods with DEFINE_MANY policy, whether or not mixins are listed before or after these methods in the spec.
 if (spec.hasOwnProperty(MIXINS_KEY)) {
 RESERVED_SPEC_KEYS.mixins(Constructor, spec.mixins); if (!name) {
 return;
 }
 } else { // Setup methods on prototype:
 // The following member methods should not be automatically bound:
 1. Expected ReactClass methods (in the 'interface'),
 2. Overridden methods
var isReactClassMethod = ReactClassInterface.hasOwnProperty(name); // For methods which are defined more than once, call the existing method before calling the new property, merging if appropriate.

if (specPolicy === 'DEFINE_MANY_MERGED') {
  proto[name] = createMergedResultFunction(proto[name], property);
} else if (specPolicy === 'DEFINE_MANY') {
  proto[name] = createChainedFunction(proto[name], property);
} else {
  proto[name] = property;
  if (process.env.NODE_ENV !== 'production') {
    // Add verbose displayName to the function, which helps when looking at profiling tools.
    if (typeof property === 'function' && spec.displayName) {
      property.displayName = spec.displayName + '_' + name;
    }
  }
}

ReactClass: You are attempting to define a reserved '%s' property, that shouldn't be on the 'constructor.' var name = ReactClassStaticInterface.hasOwnProperty(name) ? null : invariant(!isReserved, 'ReactClass: You are attempting to define a reserved property, `%s`, that shouldn\'t be on the "statics" key. Define it \'+\' as an instance property instead; it will still be accessible on the \'+\' constructor.\n
if (isAlreadyDefined) {
  var specPolicy = ReactClassStaticInterface.hasOwnProperty(name) ? 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 \'+\' due to a mixin.\n
  Constructor[name] = createMergedResultFunction(Constructor[name], property);\n  return;
}

Constructor[name] = property;\n
/**
 * Merges two objects, but throw if both contain the same key.\n
 * @param {object} one The first object, which is mutated.\n * @param {object} two The second object\n * @return {object} one after it has been mutated to contain everything in two.\n *
 * @private
 */
function mergeIntoWithNoDuplicateKeys(one, two) {
  invariant(one && two && typeof one === 'object' && typeof two === 'object', 'mergeIntoWithNoDuplicateKeys(): Cannot merge non-objects.\n
  var key in two) {
    if ((two.hasOwnProperty(property.key)) \n      invariant(one[key] == undefined, \n        'mergeIntoWithNoDuplicateKeys: \'+
        ' Tried to merge two objects with the same key: `%s`. This conflict \'+
        ' may be due to a mixin; in particular, this may be caused by two \'+
        ' getInitialState() or getDefaultProps() methods returning objects \'+
        ' with clashing keys.\n
    var one[key] = two[key];\n    return one;\n  }\n
  invariant(one[key] == undefined, \n    'mergeIntoWithNoDuplicateKeys: \'+
    ' Tried to merge two objects with the same key: `%s`. This conflict \'+
    ' may be due to a mixin; in particular, this may be caused by two \'+
    ' getInitialState() or getDefaultProps() methods returning objects \'+
    ' with clashing keys.\n
    return one;\n  }\n
  */

  * Create a function that invokes two functions and merges their return values.\n
  * @param {object} one Function to invoke first.\n  * @param {function} two Function to invoke second.\n  * @return {function} Function that invokes the two argument functions.\n
  * @private\n
  * @return {function} Function that invokes the two argument functions.\n
  * @param {object} component Component whose method is going to be bound.\n  * @param {function} method Method to bind.\n  * @return {function} Bound method.\n
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{function} method Method to be bound.
  * @return {function} The bound method.
  */
  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 _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 !== component &&
            newThis !== null) {
          warning(false, 'bind(): React component methods may only be bound to the ' +
            'component instance. See %s', componentName);
        } else if (!args.length) {
          warning(false, 'bind(): You are binding a component method to the ' +
            'component. You are doing this automatically in a high-performance ' +
            'way, so you can safely remove this call. See %s', componentName);
          return boundMethod;
        } else {
          var reboundMethod = _bind.apply(boundMethod, arguments);
          reboundMethod.__reactBoundContext = component;
          reboundMethod.__reactBoundMethod = method;
          reboundMethod.__reactBoundArguments = args;
          return reboundMethod;
        }
      };
      var boundMethod = _bind.apply(boundMethod, arguments);
    }
    return boundMethod;
  }

  /**
   * Binds all auto-bound methods in a component.
   * @param {object} component Component whose method is going to be bound.
   */
  function bindAutoBindMethods(component) {
    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);
    }
    return component;
  }

  var ReactClassPreMixin = {
    componentWillMount: function() {
      this.__isMounted = true;
    },
    componentWillUnmount: function() {
      this.__isMounted = false;
    }
  };

  /**
   * Add more to the ReactClass base class. These are all legacy features and
   * therefore not already part of the modern ReactComponent.
   */
  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);
    },
    /**
     * Checks whether or not this composite component is mounted.
     * @return {boolean} True if mounted, false otherwise.
     * @protected
     * @final
     */
    isMounted: function() {
      if (process.env.NODE_ENV !== 'production') {
        warning(false, this.__didWarnIsMounted,
          '%s: isMounted is deprecated. Instead, make sure to clean up ' +
          'subscriptions and pending requests in this constructor and ' +
          'this.constructor.displayType ||
          this.name || 'Component' ||
          this.__didWarnIsMounted = true;
        } else {
          if (this.props) {
            this.__warnIfNotMounted;
          } else if (this.context) {
            this.__warnIfNotMounted;
          }
          return !this.__isMounted;
        }
        var ReactClassComponent = function() {}
        _assign(ReactClassComponent.prototype, ReactComponent, ReactClassMixin);
        return ReactClassComponent;
      }
    },
    /**
     * Creates a compositable component class given a class specification.
     */
    create: function(spec) {
      // To keep our warnings more understandable, we'll use a little
      // hack here to ensure that Constructor.name is not 'Constructor'.
      // This makes sure we don't unnecessarily identify a class without displayName as 'Constructor' or
      // something is called a React component directly. Use a factory or JSX instead.
      // See: https://fb.me/react-legacyfactory
      var ReactClassComponent = function() {}
      _assign(ReactClassComponent.prototype, ReactComponent.prototype);
      return ReactClassComponent;
    }
  };

  var ReactClassComponent = function() {}
  _assign(ReactClassComponent.prototype, ReactComponent.prototype, ReactClassMixin);
  return ReactClassComponent;
the root directory of this source tree.

```javascript
'use strict';

var emptyFunction = require('fbjs/lib/emptyFunction');
var invariant = require('fbjs/lib/invariant');
var ReactPropTypesSecret = require('./lib/ReactPropTypesSecret');

module.exports = function() {
  function shim(props, propName, componentName, location, propFullName, secret) {
    if (secret === ReactPropTypesSecret) {
      // It is still safe when called from React.
      return;
    }
    invariant(
      false,
      'Calling PropTypes validators directly is not supported by the `prop-types` package. ' +
      'Read more at http://fb.me/use-check-prop-types
    );
  }
  shim.isRequired = shim;
  function getShim() {
    return shim;
  }
  // Important!
  // Keep this list in sync with production version in "/factoryWithTypeCheckers.js".
  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,
    objectOf: getShim,
    oneOf: getShim,
    oneOfType: getShim,
    shape: getShim,
    exact: getShim
  };

  ReactPropTypes.checkPropTypes = emptyFunction;

  ReactPropTypes.PropTypes = ReactPropTypes;

  return ReactPropTypes;
};
```

```javascript
export default function () {
  return {
    components: {
      Topbar
    }
  }
}

```
```javascript
= new Arr(_byteLength(b64, validLen, placeHoldersLen))\n  var curByte = 0 // if there are placeholders, only get up to the last complete 4 chars\n  var len = placeholdersLen > 0 ? validLen - 4 \n    : validLen\n  var tmp = 0

  // if there are placeholders, only get up to the last complete 4 chars\n  var len = placeHoldersLen > 0
    ? validLen - 4 \n    : validLen\n
  for (var i = 0; i < len; i += 4) {
    var tmp = (revLookup[b64.charCodeAt(i)] << 18) |
      (revLookup[b64.charCodeAt(i + 1)] << 12) |
      (revLookup[b64.charCodeAt(i + 2)] << 6) |
      revLookup[b64.charCodeAt(i + 3)]
    arr[curByte++] = (tmp >> 16) & 0xFF
    arr[curByte++] = (tmp >> 8) & 0xFF
    arr[curByte++] = tmp & 0xFF
  }

  if (placeHoldersLen === 2) {
    tmp = (revLookup[b64.charCodeAt(i)] << 2) |
      (revLookup[b64.charCodeAt(i + 1)] >> 4)
    arr[curByte++] = tmp & 0xFF
  }

  if (placeHoldersLen === 1) {
    tmp = (revLookup[b64.charCodeAt(i)] << 10) |
      (revLookup[b64.charCodeAt(i + 1)] << 4) |
      (revLookup[b64.charCodeAt(i + 2)] >> 2)
    arr[curByte++] = (tmp >> 8) & 0xFF
    arr[curByte++] = tmp & 0xFF
  }

  return arr
}

function tripletToBase64 (num) {
  return lookup[num >> 18 & 0x3F] +
    lookup[num >> 12 & 0x3F] +
    lookup[num >> 6 & 0x3F] +
    lookup[num & 0x3F]
}

function encodeChunk (uint8, start, end) {
  var tmp
  var output = []
  for (var i = start; i < end; i += 3) {
    tmp = ((uint8[i] << 16) & 0xFF0000) +
      ((uint8[i + 1] << 8) & 0xFF00) +
      (uint8[i + 2] & 0xFF)
    output.push(tripletToBase64(tmp))
  }
  return output.join('')
}

function fromByteArray (uint8) {
  var tmp
  var len = uint8.length
  var extraBytes = len % 3 // if we have 1 byte left, pad 2 bytes\n  var parts = []
  var maxChunkLength = 16383 // must be multiple of 3\n
  // go through the array every three bytes, we'll deal with trailing stuff later\n  for (var i = 0, len2 = len - extraBytes; i < len2; i += maxChunkLength) {
    parts.push(encodeChunk(
      uint8, i, (i + maxChunkLength) > len2 ? len2 : (i + maxChunkLength))
    )
  }

  // pad the end with zeros, but make sure to not forget the extra bytes\n  if (extraBytes === 1) {
    tmp = uint8[len - 1]
    parts.push(
      lookup[tmp >> 2] +
      lookup[(tmp << 4) & 0x3F] +
      '=='
    )
  } else if (extraBytes === 2) {
    tmp = (uint8[len - 2] << 8) + uint8[len - 1]
    parts.push(
      lookup[tmp >> 10] +
      lookup[(tmp >> 4) & 0x3F] +
      lookup[(tmp << 2) & 0x3F] +
      '='
    )
  }

  return parts.join('')
}
```

---

Open Source Used In MSX SD-WAN Service Pack 4.0.0 21017
Object.assign(target, source, ...)

var getKeys = require('./object-keys');
var getOwnPropertySymbols = require('./object-getOwnPropertySymbols');

// should work with symbols and should have deterministic property order (V8 bug)
module.exports = (!Object.assign)
  ? function assign(target, source, ...)
    { var keys = getKeys(source);
      var symbols = getOwnPropertySymbols(source);
      var length = keys.length + (symbols ? symbols.length : 0);
    }

    // 19.1.2.14 Object.keys(O)
    var toObject = require('./object-to-object');
    var Object = require('./object');
    var Symbol = require('./symbol');

    module.exports = function expect(result)
      { return typeof result == 'object' && result != null; }
symToStringTag = Symbol ? Symbol.toStringTag : undefined;

/**
 * A specialized version of `baseGetTag` which ignores `Symbol.toStringTag` values.
 * @private
 * @param {value} value The value to query.
 * @returns {string} Returns the raw `toStringTag`.
 */
function getRawTag(value) {
  var isOwn = hasOwnProperty.call(value, symToStringTag),
      tag = value[symToStringTag];

  try {
    value[symToStringTag] = undefined;
    var unmasked = true;
  } catch (e) {}

  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 = 345
// module chunks = 0

/**
 * Used to resolve the `toStringTag` of values.
 */
var objectProto = Object.prototype;

/**
 * Converts `value` to a string using `Object.prototype.toString`.
 *
 * @private
 * @param {*} value The value to convert.
 * @returns {string} Returns the converted string.
 */
function objectToString(value) {
  return nativeObjectToString.call(value);
}

module.exports = objectToString;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_objectToString.js
// module id = 346
// module chunks = 0

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 str = strSymbols ? strSymbols[0] :
      string.slice(1);

    var trailing = strSymbols ?
      castSlice(strSymbols, 1).join('') :
      string.slice(1);

    var chr = str;

    var result = chr[methodName]() + trailing;
    return result;
  };
}

module.exports = createCaseFirst;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_createCaseFirst.js
// module id = 347
// module chunks = 0

var baseSlice = require('./_baseSlice');

/**
 * Casts `array` if it's needed.
 *
 * @private
 * @param {Array} array The array to inspect.
 * @param {number} [start=0] The start position.
 * @param {number} [end=array.length] The end position.
 * @returns {Array} Returns the cast slice.
 */
function castSlice(array, start, end) {
  var length = array.length;

  if (start < 0) {
    start = (start < 0) ? 0 : start + length;
  }

  end = (end < 0) ? length : end;

  length = (end - start) >>> 0;
  start >>>= 0;

  var result = Array(length);
  while (++start < length) {
    result[start] = array[start]
  }
  return result;
}

module.exports = castSlice;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_castSlice.js
// module id = 348
// module chunks = 0

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 asciiToArray(string) {
  return string.split('');
}

module.exports = asciiToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_asciiToArray.js
// module id = 349
// module chunks = 0

/** Used to compose unicode character classes.
 */
var rsAstralRange = \u2000-\uffff;

/**
 * The base implementation of `_.indexOf` which doesn't assume `arr` is
 * sorted.
 *
 * @private
 * @param {Array} arr The array to inspect.
 * @param {*} value The value to search for.
 * @param {number} fromIndex The index to search from.
 * @returns {number} Returns the index of the matched value, otherwise -1.
 */
function baseIndexOf(arr, value, fromIndex) {
  var index = -1,
      length = arr.length;

  fromIndex = (fromIndex < 0) ? length + fromIndex : fromIndex;

  while (++index < length) {
    if (arr[index] === value)
      return index;
  }

  return -1;
}

module.exports = baseIndexOf;


var objectToStringTag = Symbol ? Symbol.toStringTag : undefined;

/**
 * Checks if a given value is classified as a primitive `string` type.
 *
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a string, else `false`.
 */
function isStringTag(value) {
  return typeof value == 'string' && value.length > 0;
}

module.exports = isStringTag;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_isStringTag.js
// module id = 350
// module chunks = 0

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 asciiToArray(string) {
  return string.split('');
}

module.exports = asciiToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_asciiToArray.js
// module id = 351
// module chunks = 0

/** Used to compose unicode character classes. */
var rsAstralRange = \u2000-\uffff;

/**
 * The base implementation of `_.indexOf` which doesn't assume `arr` is
 * sorted.
 *
 * @private
 * @param {Array} arr The array to inspect.
 * @param {*} value The value to search for.
 * @param {number} fromIndex The index to search from.
 * @returns {number} Returns the index of the matched value, otherwise -1.
 */
function baseIndexOf(arr, value, fromIndex) {
  var index = -1,
      length = arr.length;

  fromIndex = (fromIndex < 0) ? length + fromIndex : fromIndex;

  while (++index < length) {
    if (arr[index] === value)
      return index;
  }

  return -1;
}

module.exports = baseIndexOf;


var objectToStringTag = Symbol ? Symbol.toStringTag : undefined;

/**
 * Checks if a given value is classified as a primitive `string` type.
 *
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a string, else `false`.
 */
function isStringTag(value) {
  return typeof value == 'string' && value.length > 0;
}

module.exports = isStringTag;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_isStringTag.js
// module id = 350
// module chunks = 0

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 asciiToArray(string) {
  return string.split('');
}

module.exports = asciiToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_asciiToArray.js
// module id = 351
// module chunks = 0

/** Used to compose unicode character classes. */
var rsAstralRange = \u2000-\uffff;
FOOTER

OPEN SOURCE

Used in MSX SD-WAN Service Pack 4.0.0
21022
string.match(reAsciiWord) || []

module.exports = asciiWords

module.exports = hasUnicodeWord

function hasUnicodeWord(string) {
  return reHasUnicodeWord.test(string)
}

function unicodeWords(string) {
  return string.match(reUnicodeWord) || []
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function Hash(entries) {
  var index = -1,
      length = entries == null ? 0 : entries.length;

  this.clear();
  while (++index < length) {
    var key = entries[index][0],
        value = entries[index][1];

    this[key] = value;
  }
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map,
    'string': new Hash
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}

function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new Map
  };
}
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;


// 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 = 363
// module chunks = 0

/**
 * Removes all key-value entries from the hash.
 * @private
 * @name get
 * @memberOf Hash
 * @param {String} key The key of the property to get.
 * @returns {any} Returns the property value.
 */
function get(key) {
  var data = this.__data__;
  if (nativeCreate) {
    var result = data[key];
    return result === HASH_UNDEFINED ? undefined : result;
  }
  return hasOwnProperty.call(data, key);
}

module.exports = get;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_getValue.js
// module id = 368
// module chunks = 0

/**
 * Gets the value at `key` of `object`.
 * @private
 * @name getValue
 * @memberOf Hash
 * @param {Object} object The object to query.
 * @param {string} key The key of the property to get.
 * @returns {any} Returns the property value.
 */
function getValue(object, key) {
  return object == null ? undefined : object[key];
}

module.exports = getValue;


getMatchData(source); 

if (matchData.length == 1 && matchData[0][2]) { 
  return matchesStrictComparable(matchData[0][0], matchData[0][1]); 
} 

return function(object) { 
  var matchesStrictComparable = function() { 
    return true 
  } 

  var baseIsMatch = function(source, object) { 
    if (source == null) { 
      return !false 
    } 
    object = Object(object); 
    var index = matchData.length, 
        length = index, 
        noCustomizer = !customizer; 

    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) 
            : result)) { 
          return false 
        } 
      } 
    } 
    return true 
  } 

  return baseIsMatch 
}

module.exports = baseIsMatch 


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseIsMatch.js
// module id = 385
// module chunks = 0","var Stack = require('./_Stack'),
basedIsEqual = require('./_baseIsEqual');

/**
 * Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1, 

COMPARE_UNORDERED_FLAG = 2;

/*var * * * * * * * * * * The base implementation of `_.isMatch` without support for iteratee shorthands.
* var * @private * @param {Object} object The object to inspect.
* var * @param {Object} source The object of property values to match.
* var * @param {Array} matchData The property names, values, and compare flags to match.
* var * @param {Function} [customizer] The function to customize comparisons.
* var * @returns {Boolean} Returns `true` if `object` is a match, else `false`. 
* * }*/

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) 
          : result)) { 
        return false 
      } 
    } 
  } 
  return true 
}

module.exports = baseIsMatch 


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseIsMatch.js
// module id = 386
// module chunks = 0","var ListCache = require('./_ListCache'),

/**
 * Removes all key-value entries from the stack.
 */
function stackClear() { 
  this.__data__ = new ListCache; 
  this.size = 0; 
}

module.exports = stackClear 


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_stackClear.js
// module id = 387
// module chunks = 0","/**
 * Removes `key` and its value from the stack.
 */
function stackDelete(key) { 
  var data = this.__data__, 
      result = data['delete'](key); 

  this.size = data.size;
  return result 
}

module.exports = stackDelete 


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_stackDelete.js
// module id = 388
// module chunks = 0","/**
 * Gets the stack value for `key`.
 */
function stackGet(key) { 
  return this.__data__.get(key); 
}

module.exports = stackGet 


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_stackGet.js
// module id = 389
// module chunks = 0","/**
 * Checks if a stack value for `key` exists.
 */
function stackHas(key) { 
  return this.__data__.has(key); 
}

module.exports = stackHas 


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_stackHas.js
// module id = 390
// module chunks = 0","var ListCache = require('./_ListCache'),

**/
* Used as the size to enable large array optimizations. */
var LARGE_ARRAY_SIZE = 200;

/**
 * Sets the stack `key` to `value`.
 */
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 


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_stackSet.js
// module id = 391
// module chunks = 0","var Stack = require('./_Stack'),

 var Map = require('./_MapCache'),

 MapCache = require('./_MapCache');

/*var * * * * * * * * * * Sets the stack `key` to `value`. */

function stackClear(key, value) { 
  var data = this.__data__.get(key); 

  if (data instanceof ListCache) { 
    var pairs = data.__data__;

    if (pairs.length < LARGE_ARRAY_SIZE - 1) { 
      pairs.push([key, value]); 

      this.size = ++data.size;
      return this 
    } 
  }

  this.__data__.delete(key); 

  return this 
}

module.exports = stackClear 


//////////////////

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function cacheHas(cache, key) {
  return cache.has(key);
}

module.exports = cacheHas;


```javascript

module.exports = cacheHas;


```
objectProto.hasOwnProperty

/**
 * The base implementation of `_.keys` which doesn't treat sparse arrays as
dense.

 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array
 */
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;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseKeys.js
// module id = 415
// module chunks = 0

/**
 * Checks if `value` is likely a prototype object.
 *
 * @private
 * @param {*} value
 * @returns {boolean} Returns `true` if `value` is a prototype, else `false`.
 */
function isPrototype(value) {
  var Ctor = value && value.constructor,
      proto = (typeof Ctor == 'function' &&
      Ctor.prototype) || objectProto;

  return value === proto;
}

module.exports = isPrototype;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_isPrototype.js
// module id = 416
// module chunks = 0

/**
 * 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));
  };
}

module.exports = overArg;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_overArg.js
// module id = 418
// module chunks = 0

var DataView = require('./_DataView'),
    Map = require('./_Map'),
    Promise = require('./_Promise'),
    Set = require('./_Set'),
    WeakMap = require('./_WeakMap'),
    baseGetTag = require('./_baseGetTag'),
    toSource = require('./_toSource');

/**
 * Gets the `toStringTag` of `value`.
 *
 * @private
 * @param {*} value The value to query.
 * @returns {string} Returns the `toStringTag`.
 */
var getTag = baseGetTag;

// Fallback for data views, maps, sets, and weak maps in IE 11 and promises in Node.js < 6.
if ((DataView && getTag(new DataView(new ArrayBuffer(1))) != dataViewTag) ||
    (Map && getTag(new Map) != mapTag) ||
    (Promise && getTag(Promise.resolve()) != promiseTag) ||
    (Set && getTag(new Set) != setTag) ||
    (WeakMap && getTag(new WeakMap) != weakMapTag)) {
  getTag = function(value) {
    var DataView = require('./_DataView'),
        Map = require('./_Map'),
        Promise = require('./_Promise'),
        Set = require('./_Set'),
        WeakMap = require('./_WeakMap'),
        dataViewTag = '[object DataView]',
        mapTag = '[object Map]',
        promiseTag = '[object Promise]',
        setTag = '[object Set]',
        weakMapTag = '[object WeakMap]',
        toSource = require('./_toSource'),
        function result(value) {
          return(typeof value == 'undefined' ? 'undefined' :
          value && value.constructor &&
          value.constructor.name ?
          value.constructor.name : typeof value);};

  // Detect maps, sets, and weakmaps.
  function toSource(dataView) {
    var Ctor = dataView.constructor,
        tag = '[object ' +
        (Ctor && Ctor.name ? Ctor.name + 'View' : 'DataView') + ']';

    return tag;
  }

  function toSource(map) {
    var Ctor = map.constructor,
        tag = '[object ' +
        (Ctor && Ctor.name ? Ctor.name + 'Map' : 'Map') + ']';

    return tag;
  }

  function toSource(set) {
    var Ctor = set.constructor,
        tag = '[object ' +
        (Ctor && Ctor.name ? Ctor.name + 'Set' : 'Set') + ']';

    return tag;
  }

  function toSource(weakMap) {
    var Ctor = weakMap.constructor,
        tag = '[object ' +
        (Ctor && Ctor.name ? Ctor.name + 'WeakMap' : 'WeakMap') + ']';

    return tag;
  }

  DataView = function DataView() {
    return toSource(DataView);
  };

  Map = function Map() {
    return toSource(Map);
  };

  Promise = function Promise() {
    return toSource(Promise);
  };

  Set = function Set() {
    return toSource(Set);
  };

  WeakMap = function WeakMap() {
    return toSource(WeakMap);
  };

  module.exports = {
    DataView: DataView,
    Map: Map,
    Promise: Promise,
    Set: Set,
    WeakMap: WeakMap
  };
}

module.exports = getTag;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_getTag.js
// module id = 419
// module chunks = 0

var getNative = require('./_getNative'),
    root = require('./_root');

/* Built-in method references that are verified to be native. */
var DataView = getNative(root, 'DataView');

module.exports = DataView;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_DataView.js
// module id = 420
// module chunks = 0

var getNative = require('./_getNative'),
    root = require('./_root');

/* Built-in method references that are verified to be native. */
var Promise = getNative(root, 'Promise');

module.exports = Promise;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_Promise.js
// module id = 421
// module chunks = 0

var getNative = require('./_getNative'),
    root = require('./_root');

/* Built-in method references that are verified to be native. */
var Set = getNative(root, 'Set');

module.exports = Set;


module id = 428

// module chunks = 0,"var baseHasIn = require('./_baseHasIn'),\n  hasPath = require('./_hasPath');\n  \n  function hasIn(object, path) {
    return object != null && hasPath(object, path, baseHasIn);
  }

module.exports = hasIn;


module id = 429

// module chunks = 0,"/**
 * 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 baseHasIn(object, key) {
  return object != null && key in Object(object);
}

module.exports = baseHasIn;


module id = 430

// module chunks = 0,"/**
 * Checks if `path` exists on `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @param {Array|string} path The path to check.
 * @returns {boolean} Returns `false` 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];
  }
  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.
 *
 * @static
 * @since 0.1.0
 * @memberOf _
 * @category Util
 * @param {*} value Any value.
 * @returns {*} Returns `value`.
 * @example
 *
 * var result = _.identity(1);
 * // => 1
 */
function identity(value) {
  return value;
}

module.exports = identity;


module id = 432

// module chunks = 0,"/**
 * A specialized version of `_.property` which supports deep paths.
 *
 * @private
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 */
function basePropertyDeep(path) {
  return function(object) {
    return baseGet(object, path);
  };
}

module.exports = basePropertyDeep;


module id = 433

// module chunks = 0,"/**
 * The base implementation of `_.property` without support for deep paths.
 *
 * @private
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 */
function baseProperty(path) {
  return function(object) {
    return object == null ? undefined : object[path];
  };
}

module.exports = baseProperty;


module id = 434

// module chunks = 0,"/**
 * A specialized version of `baseProperty` which supports deep paths.
 *
 * @private
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 */
function basePropertyDeep(path) {
  return function(object) {
    return baseGet(object, path);
  };
}

module.exports = basePropertyDeep;


module id = 435

// module chunks = 0,"/**
 * This method returns the first argument it receives.
 *
 * @static
 * @since 0.1.0
 * @memberOf _
 * @category Util
 * @param {*} value Any value.
 * @returns {*} Returns `value`.
 * @example
 *
 * var result = _.identity(1);
 * // => 1
 */
function identity(value) {
  return value;
}

module.exports = identity;


module id = 436

// module chunks = 0,"/**
 * The base implementation of `_.property` without support for deep paths.
 *
 * @private
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 */
function baseProperty(path) {
  return function(object) {
    return object == null ? undefined : object[path];
  };
}

module.exports = baseProperty;
Built-in method references for those with the same name as other ‘lodash’ methods. */

```
var nativeMax = Math.max;\n\n\n\n\n\n\n```

```javascript
Math.max;

```

```

```

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```

```
additionalProps = objectify(additionalProperties)
let additionalPropVal = sampleFromSchema(additionalProps, config)
for (let i = 1; i < 4; i++) {
  let obj = "additionalProp" + i = additionalPropVal
  return obj
}

if (type === "array") {
  let returnItems = items.AnyMap(map(i => sampleFromSchema(items[i], config))
  let returnItemsOneOf = items.OneOf.Map(map(i => sampleFromSchema(items[i], config))
  return [sampleFromSchema(items, config)]
}

if (schema["enum"])
  return normalizeArray(schema["enum"])[0]

if (type !== "file")
  return

import const inferSchema = (thing) => {
  if (thing.properties ||
    thing.additionalProperties ||
    thing.items)
    return thing

  if (type === "object") {
    let object = objectifySchema
toJson(schema, config)
    return object
  }

  return sampleFromSchema(schema, config)
}

export const inferSchema = (thing) => {
  if (thing.schema)
    thing = thing.schema

  if (thing.properties ||
    thing.additionalProperties ||
    thing.items)
    thing.type = "object"

  return thing // Hopefully this will have something schema

  if (type === "file")
    return

  return
}

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 res = {}
  let _attr = {}
  let { xml } = schema
  let { name, prefix, namespace } = xml
  let enumValue = objectifySchema.enum
  let displayName, value

  if (!type) {
    if (properties ||
      additionalProperties)
      type = "object"
    else if (items)
      type = "array"
    else {
      return
    }
  }

  name = name || "notagname"
  if (prefix)
    displayName = prefix + ":" + name
  if (namespace)
    _attr["xmlns:" + prefix] = namespace
  if (type === "array") {
    if (items)
      items.xml = items.xml || xml || {}
      items.xml.name = items.xml.name || name
      items.xml.name
      if (xml.wrapped)
        return sampleFromSchema(items, config)
      return [sampleFromSchema(items, config)]
    if (Array.isArray(example)) {
      example.forEach((v) => {
        items.example = v
        res.push(sampleFromSchema(items, config))
      })
    } else if (Array.isArray(defaultValue)) {
      defaultValue.forEach((v) => {
        items.default = v
        res.push(sampleFromSchema(items, config))
      })
    }

    return res
  }

  if (type === "object") {
    let props = objectify(properties)
    let res = [sampleFromSchema(items, config)]
    let returnRes
    if (_attr)
      returnRes.push(_attr)
    returnRes.push(res)
    return res
  }

  if (example !== undefined) {
    value = example
  } else if (defaultValue !== undefined) {
    value = defaultValue
  } else if (Array.isArray(enumValue)) {
    value = enumValue[0]
  }
onclose);\n }\n\n var didOnEnd = false;\n function onend() {\n if (didOnEnd) return;\n didOnEnd = true;\n\n
dest.end();\n }\n\n\n function onclose() {\n if (didOnEnd) return;\n didOnEnd = true;\n\n if (typeof
dest.destroy === 'function') dest.destroy();\n }\n\n // don't leave dangling pipes when there are errors.\n function
onerror(er) {\n cleanup();\n if (EE.listenerCount(this, 'error') === 0) {\n
throw er; // Unhandled stream error
in pipe.\n }\n }\n\n source.on('error', onerror);\n dest.on('error', onerror);\n\n // remove all the event listeners that
were added.\n function cleanup() {\n source.removeListener('data', ondata);\n dest.removeListener('drain',
ondrain);\n\n source.removeListener('end', onend);\n source.removeListener('close', onclose);\n\n
source.removeListener('error', onerror);\n dest.removeListener('error', onerror);\n\n source.removeListener('end',
cleanup);\n source.removeListener('close', cleanup);\n\n dest.removeListener('close', cleanup);\n }\n\n
source.on('end', cleanup);\n source.on('close', cleanup);\n\n dest.on('close', cleanup);\n\n dest.emit('pipe',
source);\n\n // Allow for unix-like usage: A.pipe(B).pipe(C)\n return dest;\n};\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/stream-browserify/index.js\n// module id = 452\n// module chunks = 0","'use
strict';\n\nfunction _classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor)) { throw new
TypeError(\"Cannot call a class as a function\"); } }\n\nvar Buffer = require('safe-buffer').Buffer;\nvar util =
require('util');\n\nfunction copyBuffer(src, target, offset) {\n src.copy(target, offset);\n}\n\nmodule.exports =
function () {\n function BufferList() {\n _classCallCheck(this, BufferList);\n\n this.head = null;\n this.tail =
null;\n this.length = 0;\n }\n\n BufferList.prototype.push = function push(v) {\n var entry = { data: v, next: null
};\n if (this.length > 0) this.tail.next = entry;else this.head = entry;\n this.tail = entry;\n ++this.length;\n };\n\n
BufferList.prototype.unshift = function unshift(v) {\n var entry = { data: v, next: this.head };\n if (this.length
=== 0) this.tail = entry;\n this.head = entry;\n ++this.length;\n };\n\n BufferList.prototype.shift = function
shift() {\n if (this.length === 0) return;\n var ret = this.head.data;\n if (this.length === 1) this.head = this.tail =
null;else this.head = this.head.next;\n --this.length;\n return ret;\n };\n\n BufferList.prototype.clear = function
clear() {\n this.head = this.tail = null;\n this.length = 0;\n };\n\n BufferList.prototype.join = function join(s) {\n
if (this.length === 0) return '';\n var p = this.head;\n var ret = '' + p.data;\n while (p = p.next) {\n
ret += s +
p.data;\n }return ret;\n };\n\n BufferList.prototype.concat = function concat(n) {\n if (this.length === 0) return
Buffer.alloc(0);\n if (this.length === 1) return this.head.data;\n var ret = Buffer.allocUnsafe(n >>> 0);\n var p
= this.head;\n var i = 0;\n while (p) {\n
copyBuffer(p.data, ret, i);\n
i += p.data.length;\n
p = p.next;\n
}\n return ret;\n };\n\n return BufferList;\n}();\n\nif (util && util.inspect && util.inspect.custom) {\n
module.exports.prototype[util.inspect.custom] = function () {\n var obj = util.inspect({ length: this.length });\n
return this.constructor.name + ' ' + obj;\n };\n}\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/readable-stream/lib/internal/streams/BufferList.js\n// module id = 454\n// module chunks =
0","(function (global, undefined) {\n \"use strict\";\n\n if (global.setImmediate) {\n
return;\n }\n\n var
nextHandle = 1; // Spec says greater than zero\n var tasksByHandle = {};\n var currentlyRunningATask =
false;\n var doc = global.document;\n var registerImmediate;\n\n function setImmediate(callback) {\n
//
Callback can either be a function or a string\n
if (typeof callback !== \"function\") {\n
callback = new
Function(\"\" + callback);\n
}\n
// Copy function arguments\n
var args = new Array(arguments.length 1);\n
for (var i = 0; i < args.length; i++) {\n
args[i] = arguments[i + 1];\n
}\n
// Store and register the
task\n var task = { callback: callback, args: args };\n
tasksByHandle[nextHandle] = task;\n
registerImmediate(nextHandle);\n
return nextHandle++;\n }\n\n function clearImmediate(handle) {\n
delete tasksByHandle[handle];\n }\n\n function run(task) {\n
var callback = task.callback;\n
var args =
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
}\n }\n\n function runIfPresent(handle) {\n
// From the spec: \"Wait until any invocations of
this algorithm started before this one have completed.\"\n
// 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

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```javascript
function installNextTickImplementation() {
    registerImmediate = function(handle) {
        process.nextTick(function () { runIfPresent(handle); });
    }
}

function installPostMessageImplementation() {
    // Installs an event handler on `global` for the `message` event: see
    var messagePrefix = "setImmediate$" + Math.random() + "$";
    var globalMessage = function(event) {
        if (event.source === global &&
            typeof event.data === "string" &&
            event.data.indexOf(messagePrefix) === 0) {
            runIfPresent(+event.data.slice(messagePrefix.length));
        }
        if (global.addEventListener) {
            global.addEventListener("message", onGlobalMessage, false);
        } else {
            global.attachEvent("onmessage", onGlobalMessage);
        }
    }

    function installMessageChannelImplementation() {
        var channel = new MessageChannel();
        channel.port1.onmessage = function(event) {
            var handle = event.data;
            runIfPresent(handle);
        }
    }

    function installReadyStateChangeImplementation() {
        var html = doc.documentElement;
        html.onreadystatechange = function() {
            runIfPresent(handle);
            html.removeChild(script);
            script = null;
        }
    }

    function installSetTimeoutImplementation() {
        setTimeout(runIfPresent, 0, handle);
    }
}
```

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/*
 * Module exports.
 */

module.exports = deprecate;

/*
 * Mark that a method should not be used.
 * Returns a modified function which warns once by default.
 * If `localStorage.noDeprecation = true` is set, then it is a no-op.
 * If `localStorage.throwDeprecation = true` is set, then deprecated functions
 * will throw an Error when invoked.
 * If `localStorage.traceDeprecation = true` is set, then deprecated functions
 * will invoke `console.trace()` instead of `console.error()`. If `* * @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`

```javascript
* @api public

/*! *
 * @param {Function} fn
 * @param {String} name
 */

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) {
  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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Readability: **3/5**

Confidence: **90%**

This document contains JavaScript code, specifically from the `util-deprecate` module. It includes functions like `deprecate` which is used to handle deprecation warnings in code. The `config` function checks the existence of a property in the `localStorage` object and returns its boolean value. The code also includes some utility functions for transforming data and handling streams.
typeof assign !== "function" return false;n		
		obj = { foo: "raz", bar: "dwa", trzy: "trzy"};

		return (obj.foo + obj.bar + obj.trzy) === "razdwatrzy";

};


//////////////////
// WEBPACK FOOTER
// module id = 473

var isValue = require("./is-value");

var keys = Object.keys;

module.exports = function (object) {
	return keys(isValue(object) ? Object(object) : object);
};


//////////////////
// WEBPACK FOOTER
// module id = 474

var str = "razdwatrzy";

module.exports = function () {
	if (typeof str.contains !== "function") return false;
	return (str.contains("dwa") === true) && (str.contains("foo") === false);
};


//////////////////
// WEBPACK FOOTER
// module id = 475

var indexOf = String.prototype.indexOf;

module.exports = function (searchString/*, position*/) {
	return indexOf.call(this, searchString, arguments[1]) > -1;
};


//////////////////
// WEBPACK FOOTER
// module id = 476

var isValue = require("./is-value");

var map = { function: true, object: true };

module.exports = function (value) {
	return (isValue(value) && map[typeof value]) || false;
};


//////////////////
// WEBPACK FOOTER
// module id = 477

module.exports = require("./is-implemented")()
	? String.prototype.contains
	: require("./shim");


//////////////////
// WEBPACK FOOTER
// module id = 478

var d = require('d')
  , callable = require('es5-ext/object/valid-callable')

  , apply = Function.prototype.apply, call = Function.prototype.call
  , create = Object.create, defineProperty = Object.defineProperty
  , defineProperties = Object.defineProperties
  , hasOwnProperty = Object.prototype.hasOwnProperty
  , descriptor = { configurable: true, enumerable: false, writable: true }

  , on, once, off, emit, methods, descriptors, base;

on = function (type, listener) {
	var data;

	callable(listener);

	if (!hasOwnProperty.call(this, '__ee__')) {
		data = descriptor.value = create(null);
		defineProperty(this, '__ee__', descriptor);
		descriptor.value = null;
	} else {
		data[type] = listener;
	}

	return this;
};

once = function (type, listener) {
	var once, self;

	callable(listener);
	self = this;
	on.call(this, type, once = function (){
		off.call(self, type, once);
		apply.call(listener, this, arguments);
	});

	once.__eeOnceListener__ = listener;
	return this;
};

off = function (type, listener) {
	var data, listeners, candidate, i;

	callable(listener);

	if (!hasOwnProperty.call(this, '__ee__')) return this;
	data[type] = listener;
	nelse if (typeof data[type] === 'object')

data[type].push(listener);

data[type] = [data[type], listener];

	return this;
};

emit = function (type) {
	var i, l, listener, listeners, args;

	if
disable-next-line max-depth

```javascript
if (code >= 0xd800 && code <= 0xdbff) value +=
arrayLike[++i];
```
function (id) {
  clearTimeout(timeouts[id]);
  delete timeouts[id];
  if (options.async) {
    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) {
      if (preFetchTimeouts[id] !== "nextTick")
        clearTimeout(preFetchTimeouts[id]);
      delete preFetchTimeouts[id];
      conf.delete(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)) {
            if (typeof result.done === "function")
              result.done(noop, noop);
            else result.then(noop, noop);
            return;
          }
        }
        return;
      }
    });
    conf.on("clear" + postfix, function () {
      forEach(timeouts, function (id) {
        clearTimeout(id);
      });
      timeouts = {};
      if (preFetchTimeouts)
        forEach(preFetchTimeouts, function (id) {
          if (id !== "nextTick")
            clearTimeout(id);
        });
      preFetchTimeouts = {};
    });
  }
}

clearTimeOut(id);
function (id) {
	cache[id] = length || 1;
});
	conf.on("delete" + postfix, function (id) {
	cache[id] = null;
	return 0;
	});
	conf.on("clear" + postfix, function () {

cache = {};
});

	defineProperties(conf.memoized, {
		deleteRef: d(function () {
			var id = conf.get(arguments);
			if (id === null) return null;
			if (!cache[id]) return false;
			return true;
		},
		getRefCount: d(function () {
			var id = conf.get(arguments);
			if (id === null) return 0;
			return cache[id];
		})
	});

	//////////////////////////////////////////////////////////////////////////////////
// WEBPACK FOOTER
// module.id = 516
// module.chunks = 0

/*
 * OBJECT ASSIGN DEEP
 * Allows deep cloning of plain objects that contain primitives, nested plain objects, or nested plain arrays. 
 */

module.exports = function objectAssignDeep(target) {
	for (var _len = arguments.length, objects = Array(_len), _key = 0; _key < _len; _key++) {
		objects[_key] = 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() {
	for (var _len2 = arguments.length, objects = Array(_len2), _key2 = 0; _key2 < _len2; _key2++) {
		objects[_key2] = arguments[_key2];
	}

	return executeDeepMerge(target, objects);
};
module id = 521
module chunks = 0

'\n''use strict';

var loader = require('./js-yaml/loader');
var dumper = require('./js-yaml/dumper');

function deprecated(name) {
  return function () {
    throw new Error('Function ' + name + ' is deprecated and cannot be used.');
  };
}

module.exports.Type = require('./js-yaml/type');
module.exports.Schema = require('./js-yaml/schema');
module.exports.FAILSAFE_SCHEMA = require('./js-yaml/schema/failsafe');
module.exports.DEFAULT_SAFE_SCHEMA = require('./js-yaml/schema/default_safe');
module.exports.DEFAULT_FULL_SCHEMA = require('./js-yaml/schema/default_full');
module.exports.load = loader.load;
module.exports.loadAll = loader.loadAll;
module.exports.safeLoad = loader.safeLoad;
module.exports.safeLoadAll = loader.safeLoadAll;
module.exports.dump = dumper.dump;
module.exports.safeDump = dumper.safeDump;

function fromHexCode(c) {
  if ((0x30 <= c) && (c <= 0x39)) {
    return c - 0x30;
  }
  /*eslint-disable no-bitwise*/
  lc = c | 0x20;
  if ((0x61 <= lc) && (lc <= 0x66)) {
    return lc - 0x61 + 10;
  }
  return -1;
}

function escapedHexLen(c) {
  if (c === 0x78) { return 2; }
  if (c === 0x75) { return 4; }
  if (c === 0x55) { return 8; }
  return 0;
}

function simpleEscapeSequence(c) {
  return (c === 0x30) ? '\x00' :
        (c === 0x61) ? '\x07' :
        (c === 0x62) ? '\x08' :
        (c === 0x74) ? '\x09' :
        (c === 0x20) ? ' ' :
        (c === 0x22) ? '\x22' :
        (c === 0x2F) ? '/' :
        (c === 0x5C) ? '\x5C' :
        (c === 0x85) ? '\x85' :
        (c === 0xA0) ? '\xA0' :
        (c === 0xC5) ? '\xC5' :
        (c === 0x4E) ? '\xE5' :
        (c === 0x88) ? '\x88' :
        (c === 0x5F) ? '\x5F' :
        'no-escape-sequence';
}

function charFromCodepoint(c) {}
state.line = startLine || state.line;
state.position = startPos || state.position;
throwError(state, 'duplicated mapping key');

_result[keyNode] = valueNode;
delete overridableKeys[keyNode];

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 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) ||
        withinFlowCollection && is_FLOW_INDICATOR(following)) {
      break;
    }
  }

  state.kind = 'scalar';
  state.result = '';
  captureStart = captureEnd = state.position;
  hasPendingContent = false;

  while (ch !== 0) {
    if (is_WS_OR_EOL(ch)) {
      if (ch === 0 || is_WS_OR_EOL(ch)) {
        return false;
      }
    }

    if (ch === 0x23/* # */) {
      preceding = state.input.charCodeAt(state.position - 1);

      if (preceding !== 0x23/* # */) {
        return false;
      }
    }

    if ((state.position === state.lineStart) &&
        testDocumentSeparator(state)) {
      _line = state.line;
      _lineStart = state.lineStart;
      _lineIndent = state.lineIndent;
      skipSeparationSpace(state, false, -1);
      if (state.lineIndent >= nodeIndent) {
        hasPendingContent = true;
        ch = state.input.charCodeAt(state.position);
      } else {
        break;
      }
    }

    if (hasPendingContent) {
      captureSegment(state, captureStart, captureEnd, false);
      writeFoldedLines(state, state.lineIndent);
      captureStart = captureEnd = state.position;
      hasPendingContent = false;
      if (!is_WHITE_SPACE(ch)) {
        captureEnd = state.position + 1;
        ch = state.input.charCodeAt(state.position);
        captureSegment(state, captureStart, captureEnd, false);
      }
    }

    if (state.result) {
      return false;
    }

    state.kind = _kind;
    state.result = _result;
    return false;
  }

  return true;
}
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);
  }
  else if (is_EOL(ch)) {
    state.position++; captureEnd = state.position;
    writeFoldedLines(state, skipSeparationSpace(state, false, nodeIndent));
    captureStart = captureEnd = state.position;
    if (state.position + ++captureEnd >= state.position) { return true; }
    } else if (state.position === state.lineStart && testDocumentSeparator(state)) {
      throwError(state, 'unexpected end of the document within a single quoted scalar');
  }
  else { state.position++;
captureStart = state.position;
    captureEnd = state.position;
    if (ch === 0x22/* " */) {
      captureSegment(state, captureStart, state.position, true);
    }
    else if (ch === 0x5C/* \ */) {
      captureSegment(state, captureStart, state.position, true);
    } else if (is_EOL(ch)) {
      skipSeparationSpace(state, false, nodeIndent);
      captureStart = captureEnd = state.position;
    }
  }
}

function readDoubleQuotedScalar(state, nodeIndent) {
  var captureStart = state.position;
  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);
  }
  else if (ch === 0x5C/* \ */) {
    captureSegment(state, captureStart, state.position, true);
  }
  else if (state.position === state.lineStart && testDocumentSeparator(state)) {
    throwError(state, 'unexpected end of the document within a double quoted scalar');
  }
  else { state.position++;
captureStart = state.position;
    captureEnd = state.position;
    if (ch === 0x22/* " */) {
      captureSegment(state, state.position, true);
    }
    else if (ch === 0x5C/* \ */) {
      captureSegment(state, state.position, true);
    }
    else if (is_EOL(ch)) {
      skipSeparationSpace(state, false, nodeIndent);
      captureStart = captureEnd = state.position;
    }
  }
}

function readFlowCollection(state, nodeIndent) {
  var readNext = true,
      terminator,
      isPair,
      isExplicitPair,
      _result,
      _anchor,
      overridableKeys = {},
      keyTag,
      valueNode,
      ch,
      following,
      isExplicitPrefix,
      isMapping,
      sequence,
      _line,
      _tag = state.tag,
      isPair = state.tag === CONTEXT_FLOW_IN,
      keyNode,
      valueNode,
      isExplicitPair = state.tag === CONTEXT_FLOW_IN,
      isExplicitPrefix = state.tag === CONTEXT_FLOW_IN,
      isMapping = state.tag === CONTEXT_FLOW_IN,
      sequence = state.tag === CONTEXT_FLOW_IN,
      _result = state.tag === CONTEXT_FLOW_IN,
      _anchor = state.tag === CONTEXT_FLOW_IN,
      isExplicitPrefix = state.tag === CONTEXT_FLOW_IN,
      isMapping = state.tag === CONTEXT_FLOW_IN,
      sequence = state.tag === CONTEXT_FLOW_IN,
      _result = state.tag === CONTEXT_FLOW_IN,
      _anchor = state.tag === CONTEXT_FLOW_IN,
      isExplicitPrefix = state.tag === CONTEXT_FLOW_IN,
      isMapping = state.tag === CONTEXT_FLOW_IN,
      sequence = state.tag === CONTEXT_FLOW_IN,
      _result = state.tag === CONTEXT_FLOW_IN,
      _anchor = state.tag === CONTEXT_FLOW_IN,
      isExplicitPrefix = state.tag === CONTEXT_FLOW_IN,
      isMapping = state.tag === CONTEXT_FLOW_IN,
      sequence = state.tag === CONTEXT_FLOW_IN,
      _result = state.tag === CONTEXT_FLOW_IN,
      _anchor = state.tag === CONTEXT_FLOW_IN,
      isExplicitPrefix = state.tag === CONTEXT_FLOW_IN,
      isMapping = state.tag === CONTEXT_FLOW_IN,
      sequence = state.tag === CONTEXT_FLOW_IN,
      _result = state.tag === CONTEXT_FLOW_IN,
      _anchor = state.tag === CONTEXT_FLOW_IN,
      isExplicitPrefix = state.tag === CONTEXT_FLOW_IN,
skipSeparationSpace(state, true, -1);`\n
`\n
PATTERN_NON_ASCII_LINEBREAKS.test(state.input.slice(documentStart, state.position))) { `\n
throwWarning(state, 'non-ASCII line breaks are interpreted as content');`\n
} `\n
state.documents.push(state.result);`\n
if (state.position === (state.length - 1)) { `\n
throwError(state, 'end of the stream or a document separator is expected');`\n
} else { `\n
return;`\n
}

loadDocuments(input, options) { `\n
input = String(input);`\n
options = options || {};

if (input.length !== 0) {

// Add tailing `'\n` if not exists
if (input.charCodeAt(input.length - 1) !== 0x0A/* LF */ &&
in(input.charCodeAt(input.length - 1) !== 0x0D/* CR */) {

input += '\n';

}

if (input.charCodeAt(0) === 0xFEFF) {

input = input.slice(1);

}

var documents = loadDocuments(input, options);

if (documents) {

if (context) {

context.push(documents)

return documents;

}

load(input, options, documents, index, length, true, firstIndex);`\n
} else {`\n
return loadAll(input, options, documents, index, length, true, firstIndex);

}

function loadAll(input, iterator, options) { `\n
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]);

}

return documents;

}

function safeLoadAll(input, output, options) { `\n
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), output);`\n
} `\n
function safeLoad(input, options) { `\n
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;
(YAML_TIMESTAMP_REGEXP.exec(data) !== null) return true;

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_DATE_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]);
  fraction = +(match[7]).slice(0, 3);

  while (fraction.length < 3) { // milliseconds
    fraction += '0';
  }

  tz_hour = +(match[9]);
  tz_minute = +(match[10]);
  delta = (tz_hour * 60 + tz_minute) * 60000;

  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
// module id = 532
// module chunks = 0
var DEPRECATED_BOOLEANS_SYNTAX = ['y', 'Y', 'yes', 'Yes', 'YES', 'on', 'On', 'ON', 'n', 'no', 'No', 'OFF', 'OFF\n']

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 '\\' + handle + 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;

  this.implicitTypes = this.schema.compiledImplicit;
  this.explicitTypes = this.schema.compiledExplicit;

  this.testImplicitResolving = function(testImplicitResolving(state, str) {
    var index, length, type;

    for (index = 0, length = this.implicitTypes.length; index < length; index += 1) {
      type = this.implicitTypes[index];

      if (type.resolve(str)) {
        return true;
      }
    }

    return false;
  });

  this.testImplicitResolving = function(testImplicitResolving(state, str) {
    var index, length, type;

    for (index = 0, length = this.implicitTypes.length; index < length; index += 1) {
      type = this.implicitTypes[index];

      if (type.resolve(str)) {
        return true;
      }
    }

    return false;
  });

  function generateNextLine(state, level) {
    return '\n' + common.repeat(' ', state.indent * level);
  }

  this.testImplicitResolving = function(testImplicitResolving(state, str) {
    var index, length, type;

    for (index = 0, length = this.implicitTypes.length; index < length; index += 1) {
      type = this.implicitTypes[index];

      if (type.resolve(str)) {
        return true;
      }
    }

    return false;
  });

  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 testImplicitResolving(state, str) {
    var index, length, type;

    for (index = 0, length = this.implicitTypes.length; index < length; index += 1) {
      type = this.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 <= 0x0007E) || ((0x000A1 <= c && c <= 0x000D7FF) && c !== 0x00002C && c !== 0x000000FE) || ((0x00E000 <= c && c <= 0x00E00FF) && c !== 0x00003C && c !== 0x000000FE);
  }

  function isPlainSafe(c) {
    // Uses a subset of nb-char - c-indicator
    // where nb-char ::= c-printable - b-char - c-byte-order-mark.
    return isPrintable(c);
  }

  function isPlainSafeFirst(c) {
    // Uses a subset of ns-char - c-indicator
    // where ns-char ::= c-printable - b-char - c-byte-order-mark.
    return isPrintable(c);
  }

  function isWhitespace(c) {
    return isWhitespace(c);
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    return isWhitespace(c);
  }

  function isWhitespace(c) {
"\", \"\" | \"\" | \"\" | \"\" | \n & & 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
 // | \"\" | \"\" | \"\" | \"\" | \"\" | \"\" | \n & & 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_PERCENT
 & & c != CHAR_COMMERCIAL_AT
 & & c != CHAR_GRAVEAccent;

// Determines whether block indentation indicator is required.
function needIndentIndicator(string) {
  var leadingSpaceRe = /^\n* /;
  return leadingSpaceRe.test(string);
}

var STYLE_PLAIN   = 1,
    STYLE_SINGLE  = 2,
    STYLE_LITERAL = 3,
    STYLE_FOLDED  = 4,
    STYLE_DOUBLE  = 5;

// 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).
function chooseScalarStyle(string, singleLineOnly, indentPerLevel, lineWidth, testAmbiguousType) {
  var i;
  var char;

  var hasLineBreak = false;
  var hasFoldableLine = false; // only checked if shouldTrackWidth
  var previousLineBreak = -1; // count the first line correctly

  var plain = true;

  if (singleLineOnly) {
    // Case: no block styles.
    // Check for disallowed characters to rule out plain and single.
    for (i = 0; i < string.length; i++) {
      char = string.charCodeAt(i);
      if (!isPrintable(char)) {
        return STYLE_DOUBLE;
      }
      plain = plain && isPlainSafe(char);
    }
  } else {
    // Case: block styles permitted.
    for (i = 0; i < string.length; i++) {
      char = string.charCodeAt(i);
      if (char === CHAR_LINE_FEED) {
        hasLineBreak = true;
        // Check if any line can be folded.
        if (shouldTrackWidth) {
          hasFoldableLine = hasFoldableLine ||
            // Foldable line = too long, and not
            more-indented.
            (i - previousLineBreak - 1 > lineWidth &&
             string[previousLineBreak + 1] !== '\n');
          previousLineBreak = i;
        }
      } else if (!isPrintable(char)) {
        return STYLE_DOUBLE;
      }
      plain = plain && isPlainSafe(char);
    }
    // in case the end is missing a \n
    hasFoldableLine = hasFoldableLine &&
      (shouldTrackWidth &&
       (i - previousLineBreak - 1 > lineWidth &&\n
       string[previousLineBreak + 1] !== '\n')
    );

    // Although every style can represent \n without escaping, prefer
    // block styles for multiline, since they're more readable and they don't add empty lines.
    // Also prefer folding a super-long line.
    // Strings interpretable as another type have to be quoted.
    // e.g. the string 'true' vs. the boolean true.
    // return plain && !testAmbiguousType(string) ?
    // STYLE_PLAIN : STYLE_SINGLE
    
    // Edge case: block indentation indicator can only have one digit.
    if (indentPerLevel > 9 && needIndentIndicator(string)) {
      return STYLE_DOUBLE;
    }
  } else {
    // Prefer literal style unless we want to fold.
    return hasFoldableLine ?
      STYLE_FOLDED : STYLE_LITERAL;
  }

  // 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
  // for multiline, since they're more readable and they don't add empty lines.\n// Also prefer folding a super-long line.\n// Strings interpretable as another type have to be quoted.\n// e.g. the string 'true' vs. the boolean true.\nreturn plain && !testAmbiguousType(string) ?
STYLE_PLAIN : STYLE_SINGLE
};

// Edge case: block indentation indicator can only have one digit.\nif (indentPerLevel > 9 && needIndentIndicator(string)) {
return STYLE_DOUBLE;
}

// At this point we know block styles are valid.\n// Prefer literal style unless we want to fold.\nreturn hasFoldableLine ?
STYLE_FOLDED : STYLE_LITERAL;

 function writeScalar(state, string, level, iskey) {
  state.dump = (function () {
    if (string.length === 0) {
      return "''";
    }
    if (!state.noCompatMode &&
      DEPRECATED_BOOLEANSYNTAX.indexOf(string) !== -1) {\n      return \"\" + string + \"\";\n    }
    var indent = state.indent * Math.max(1, level);
    // no 0-indent scalars
    // 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
    // or an indent threshold which causes the width to suddenly increase.\n    var lineWidth =\n  

state.dump = object;\nif (!detectType(state, object, false)) {\n  detectType(state, object, true);\n} \nvar var type = \n  toString.call(state.dump);\nif (block) {\n  block = (state.flowLevel < 0 || state.flowLevel > level);\n} \nvar objectOrArray = type === '[object Object]' || type === '[object Array]';\nvar duplicateIndex, \nduplicate;\nif (object) \n  return false;\n\nif (objectOrArray) {\n  duplicateIndex = state.duplicates.indexOf(object);\n  duplicate = duplicateIndex !== -1;\n} \nif ((state.tag !== null && state.tag !== '?')) \n  return true;\n\nfunction getDuplicateReferences(object, state) {\n  var objects = [], \nduplicatesIndexes = [], \nindex, \nlength;\ninspectNode(object, objects, duplicatesIndexes);\nfor (index = 0, length = duplicatesIndexes.length; index < length; index += 1) {\n  state.duplicates.push(objects[duplicatesIndexes[index]]);\n  state.usedDuplicates = new Array(length);\n}\n}\n
function inspectNode(object, objects, duplicatesIndexes) {\n  var objectKeyList, \nindex, \nlength;\nif (object !== null && typeof object === 'object') {\n  index = objects.indexOf(object);\n  if (index !== -1) {\n    if (duplicatesIndexes.indexOf(index) === -1) {\n      duplicatesIndexes.push(index);\n    } \n  } else {\n    objects.push(object);\n    if (Array.isArray(object)) {\n      for (index = 0, length = object.length; index < length; index += 1) {\n        inspectNode(object[index], objects, duplicatesIndexes);\n      }\n    } else {\n      objectKeyList = Object.keys(object);\n      for (index = 0, length = objectKeyList.length; index < length; index += 1) {\n        inspectNode(object[objectKeyList[index]], objects, duplicatesIndexes);\n      }\n    } \n  } \n}\n}\n
function dump(input, options) {\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  return dump(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));\n}\n
export const downloadConfig = (req) => (system) => {\n  const {fn: { fetch }} = system\n
  return fetch(req)\n}

export const getConfigByUrl = (req, cb) => ({ specActions }) => {\n  if (req) {\n    return specActions.downloadConfig(req).then(next, next)\n  } \n
  function next(res) {\n    if (res instanceof Error || res.status >= 400) {\n      specActions.updateLoadingStatus("failedConfig")\n      specActions.updateLoadingStatus("failedConfig")\n      specActions.updateUrl("");\n      console.error(res.statusText + " " + req.url);\n      cb(null)\n    } else {\n      cb(parseYamlConfig(res.text));\n    } \n  }\n}\n
export const get = (state, path) => {\n  return state.getIn(Array.isArray(path) ? path : [path])\n}\n
export default {
  [UPDATE_CONFIGS]: (state, action) => {
    return state.merge(fromJS(action.payload))\n  },

  [TOGGLE_CONFIGS]: (state, action) => {
    const configName = action.payload\n    const oriVal = state.get(configName)\n    return state.set(configName, !oriVal)\n  },

  updateLoadingStatus: ("failedConfig")\n}\n
console.error(res.statusText + " " + req.url)\ncb(null)\nelse { cb(parseYamlConfig(res.text));\n}\n}}\n\nWEBPACK FOOTER

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Open Source Used In MSX SD-WAN Service Pack 4.0.0 21076
function fromArrayBuffer(that, array, byteOffset, length){
    if(byteOffset<0||array.byteLength<byteOffset+length){throw new RangeError("'offset' is out of bounds")}
    if(byteOffset===undefined&length===undefined){that=new Uint8Array(array.byteOffset, array.arrayLength)}
    else{that=new Uint8Array(array, byteOffset, length)}
    if(byteOffset<0){throw new RangeError("'offset' is out of bounds")}
    if(array.byteLength<byteOffset+(length||0))
        return that.length;for(i=0;i<length;i+=1){that[i]=array[i]&255}
    return that}

function fromObject(that, obj, pos, length){
    if(Buffer.isBuffer(obj)){
        var len=checked(obj.length)|0;
        that=createBuffer(len);
        if(pos===undefined){pos=0}if(length===undefined){length=len}
        obj.copy(that, pos, length);
        return that}
    if(obj){
        if(!ArrayBuffer){throw new TypeError("First argument must be a string, Buffer, ArrayBuffer, Array, or array-like object.")
        return fromObject(buffer, obj, pos, length);check(len)={
            return new Uint8Array(len, length, pos)}
        that=pos=pos+length}
    that=Buffer.from(buffer, obj)
        if(pos===undefined){pos=0}if(length===undefined){length=buffer.length-1}
        that[pos]=buffer[pos];that[pos+1]=buffer[pos+1];pos=pos+2
    that=buffer.slice(pos, length)}
}

function slowToString(encoding, start, end){
    var len=buffer.length;
    if(encoding===undefined){encoding="utf8";
        return utf8Slice(buffer, start, end)"utf8":
        return that.length;
    that=buffer.slice(start, end);that=that.toString(encoding)if(encoding==="hex")
    return that.slice(0, that.length/2)"base64":
        return that.toString(encoding)if(encoding==="utf8")
        return that.slice(0, that.length)
    that=buffer.slice(start, end);that=that.toString(encoding)if(encoding==="utf8")
        return that.slice(0, that.length)
    that=buffer.slice(start, end);that=that.toString(encoding)if(encoding==="utf8")
        return that.slice(0, that.length)
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    that=buffer.slice(start, end);that=that.toString(encoding)if(encoding==="utf8")
        return that.slice(0, that.length)
    that=buffer.slice(start, end);that=that.toString(encoding)if(encoding==="utf8")
        return that.slice(0, that.length)
offset+byteLength}; Buffer.prototype.writeIntBE = function
writeIntBE(value, offset, byteLength, noAssert) { value = +value; offset = offset | 0; if (!noAssert) {
    var limit = Math.pow(2, 8 * byteLength - 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) {
        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 & 255; this[offset + 1] = value >>> 8; } else { objectWriteUInt16(this, value, offset, false); return offset + 2; } Buffer.prototype.writeInt32LE = function
writeInt32LE(value, offset, noAssert) { value = +value; offset = offset | 0; if (!noAssert) {
    checkInt(this, value, offset, 4, 2147483647, -2147483648); if (Buffer.TYPED_ARRAY_SUPPORT) {
        this[offset] = value & 255; 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) {
    checkInt32BE(value, offset, 4, 2147483647, -2147483648); if (value < 0) value = -value;
    if (Buffer.TYPED_ARRAY_SUPPORT) {
        this[offset] = value & 255; this[offset + 1] = value >>> 8; this[offset + 2] = value >>> 16;
        this[offset + 3] = value >>> 24; } else { objectWriteUInt32(this, value, offset, false); return offset + 4; } Buffer.prototype.writeFloatLE = function
writeFloatLE(value, offset, noAssert) { return writeFloat(this, value, offset, true, noAssert); } Buffer.prototype.writeFloatBE = function
writeFloatBE(value, offset, noAssert) { return writeFloat(this, value, offset, false, noAssert); } Buffer.prototype.writeDoubleLE = function
writeDoubleLE(value, offset, noAssert) { return writeDouble(this, value, offset, true, noAssert); } Buffer.prototype.writeDoubleBE = function
writeDoubleBE(value, offset, noAssert) { return writeDouble(this, value, offset, false, noAssert); }
};

// Copy

function copy(target, start, end) {
    if (end < start) {
        end = target.length;
    }
    if (targetStart >= start) {
        targetStart = start;
    }
    if (targetStart > target.length) {
        targetStart = target.length;
    }
    if (targetStart < 0) {
        targetStart = target.length + targetStart;
    }
    var len = end - start;
    for (i = start; i < len; i++) {
        target[i + targetStart] = source[i];
    }
}
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);return index>-
1?iteratee?collection[index]:undefined :module.exports=createFind};function(module,exports,__webpack_require__){
    var baseIsMatch=__webpack_require__(436),getMatchData=__webpack_require__(462),matchesStrictComparable=__webpack_require__(208);function baseMatches(source){
        var matchData=getMatchData(source);if(matchData.length==1&matchData[0][2]){return matchesStrictComparable(matchData[0][0],matchData[0][1])}
    var index=findIndexFunc(collection,predicate,fromIndex);return index>-1?iterable[iteratee?collection[index]:undefined]:undefined}}module.exports=createFind};function(module,exports,__webpack_require__){
    var baseIsMatch=__webpack_require__(436),getMatchData=__webpack_require__(462),matchesStrictComparable=__webpack_require__(208);function baseMatches(source){
        var matchData=getMatchData(source);if(matchData.length==1&matchData[0][2]){return matchesStrictComparable(matchData[0][0],matchData[0][1])}
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Stream;interrupted=true的女孩interrupt&&interrupted)的女孩
var
data=output;delay(function(){
stream.emit("data",data));output=""}));}
function end(){if(stream){
var
data=output;delay(function(){
stream.emit("data",data);stream.emit("end");stream.readable=false;stream.emit("close");})}
function addXmDeclaration(declaration){
var encoding=declaration.encoding||"UTF-8";
attr={version:"1.0",encoding:encoding};
if(declaration.standalone)
attr.standalone=declaration.standalone;
add({"xml":{"@attr":null}});output=output.replace("/
","","\""});
delay(function(){
if(options.declaration)
addXmDeclaration(options.declaration);
if(input&&input.forEach)
input.forEach(function(value,i){
if(i+1===input.length)
last=end;
add(value,last)})
else{
add(input,end)
}})
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add(input,end)
}})
null;this.legacy=options["legacy"]||false;this.json=options["json"]||false;this.listener=options["listener"]||null;this.implicitTypes=this.schemacompiledImplicit;this.typeMap=this.schema.compiledTypeMap;this.length=this.input.length;this.position=0;this.line=0;this.lineStart=0;this.lineIndent=0;this.documents=[]}function generateError(state,message){return new YAMLException(message,new Mark(state.filename,state.input,state.position,state.line,state.position-state.lineStart))}function throwError(state,message){throw generateError(state,message)}function throwWarning(state,message){if(state.onWarning){state.onWarning.call(null,generateError(state,message))}}var directiveHandlers={YAML:function handleYamlDirective(state,name,args){var match,major,minor;if(state.version!==null){throwError(state,"duplication of %YAML directive")}if(args.length!==1){throwError(state,"YAML directive accepts exactly one argument")}match=/^([0-9]+).([0-9]+)$/.exec(args[0]);if(match===null){throwError(state,"ill-formed argument of the YAML directive")}major=parseInt(match[1],10);minor=parseInt(match[2],10);if(major!==1){throwError(state,"unacceptable YAML version of the document")};STATE.version=args[0];STATE.checkLineBreaks=minor<2;if(minor!==1&&minor!==2){throwWarning(state,“unsupported YAML version of the document“)}},TAG:function handleTagDirective(state,name,args){var handle,prefix;if(args.length!==2){throwError(state,"TAG directive accepts exactly two arguments")}handle=args[0];prefix=args[1];if(!PATTERN_TAG_HANDLE.test(handle)){throwError(state,"ill-formed tag handle (first argument) of the TAG directive")}if(_hasOwnProperty.call(state.tagMap,handle)){throwError(state,"there is a previously declared suffix for ‘"+handle++" tag handle’")}if(!PATTERN_TAG_URI.test(prefix)){throwError(state,"ill-formed tag prefix (second argument) of the TAG directive")}state.tagMap[handle]=prefix}};function captureSegment(state,start,end,checkJson){var _position,_length,_character,_result;if(start<end){_result=state.input.slice(start,end);if(checkJson){for(_position=0,_length=_result.length;_position<_length;_position+=1){_character=_result.charCodeAt(_position);if(!(_character==9||32<=_character&&_character<=1114111)){throwError(state,"expected valid JSON character")}}}else if(PATTERN_NON_PRINTABLE.test(_result)){throwError(state,"the stream contains non-printable characters")};STATE.result+=_result}}function mergeMappings(state,destination,source,overridableKeys){var sourceKeys,key,index,quantity;if(!common.isObject(source)){throwError(state,"cannot merge mappings; the 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];overridableKeys[key]=true}};function storeMappingPair(state,_result,overridableKeys,keyTag,keyNode,valueNode,startLine,startPos){var index,quantity;keyNode=String(keyNode);if(_result===null){_result=[]};if(!(_hasOwnProperty.call(destination,key))){destination[key]=source[key];overridableKeys[key]=true}};function
indentation of a mapping entry")} else
if (state.lineIndent < nodeIndent) { break } } if (atExplicitKey) { storeMappingPair(state, result, overridableKeys, keyTag, keyNode, null) } 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 != 33) return false;
  if (state.tag !== null) {
    throwError(state, "duplication of a tag property")
  } else {
    state.tag = state.input.charCodeAt(state.position + 1);
    state.tag = state.input.slice(_, state.position, state.tag);
    if (state.tag !== null) {
      throwError(state, "duplication of an anchor property")
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}
null; indent=indent&&(maxLength=maxLength||75); head="\n\n"; start=0; while(start<end){while(start<end&&"\n\r\n\u2028\u2029".indexOf(this.buffer.charAt(start))===-1){start+=1; if(start-end>maxLength/2-1){head=" ... "; break}}} tail="\n\n"; end=this.buffer.length; while(end<end&&"\n\r\n\u2028\u2029".indexOf(this.buffer.charAt(end))===-1){end-=1; if(end-this.position>maxLength/2-1){tail=" ... "; break}}} snippet=this.buffer.slice(start,end); return common.repeat(" ", indent)+head+snippet+tail+"\n"+common.repeat(" ", indent+this.position-start+head.length)+"^"; Mark.prototype.toString=common.stringify(function(data){return data}); Mark.prototype.getSnippet=common.stringify(function(data){return data}); Mark.prototype.valueOf=d...
Open Source Used In MSX SD-WAN Service Pack 4.0.0

Module exports=new Type("tag:yaml.org,2002:bool",{"kind":"scalar","resolve:resolveYamlBoolean,construct:constructYamlBoolean,predicate:isBoolean,represent:{"lowercase:funcion(object){return object?true:false},"uppercase:funcion(object){return object?"TRUE":"FALSE"},camlcase:funcion(object){return object?"true":"false"}})

module.exports=new Type("tag:yaml.org,2002:int",{"kind":"scalar","resolve:resolveYamlInteger,construct:constructYamlInteger,predicate:isInteger,represent:"binary:funcion(object){return object.toString(2) || "0b" + object.toString(2).slice(2)},"octal:funcion(object){return object.toString(8) || "0" + object.toString(8).slice(1)},"decimal:funcion(object){return object.toString(10)},"hexadecimal:funcion(object){return object.toString(16)}"},defaultStyle:"decimal",styleAliases:{"binary:[2,"bin"],"octal:[8,"oct"],"decimal:[10,"dec"],"hexadecimal:[16,"hex"],"string:[]="string"},function(module,exports,_webpack_require__){"use strict";var common=_webpack_require__([58]),Type=_webpack_require__([11]);var function constructYamlBoolean(data){return data==='true' || data==='"true"' || data==='TRUE' || data==='"TRUE"' || data==='false' || data==='"false"' || data==='FALSE' || data==='"FALSE"';}function isBoolean(object){return Object.prototype.toString.call(object)==="[object Boolean]";

module.exports=new Type("tag:yaml.org,2002:bool",{"kind":"scalar","resolve:resolveYamlBoolean,construct:constructYamlBoolean,predicate:isBoolean,represent:{"lowercase:funcion(object){return object?true:false},"uppercase:funcion(object){return object?"TRUE":"FALSE"},camlcase:funcion(object){return object?"true":"false"}})

module.exports=new Type("tag:yaml.org,2002:int",{"kind":"scalar","resolve:resolveYamlInteger,construct:constructYamlInteger,predicate:isInteger,represent:"binary:funcion(object){return object.toString(2) || "0b" + object.toString(2).slice(2)},"octal:funcion(object){return object.toString(8) || "0" + object.toString(8).slice(1)},"decimal:funcion(object){return object.toString(10)},"hexadecimal:funcion(object){return object.toString(16)}"},defaultStyle:"decimal",styleAliases:{"binary:[2,"bin"],"octal:[8,"oct"],"decimal:[10,"dec"],"hexadecimal:[16,"hex"],"string:[]="string"},function(module,exports,_webpack_require__){"use strict";var common=_webpack_require__([58]),Type=_webpack_require__([11]);var function constructYamlBoolean(data){return data==='true' || data==='"true"' || data==='TRUE' || data==='"TRUE"' || data==='false' || data==='"false"' || data==='FALSE' || data==='"FALSE"';}function isBoolean(object){return Object.prototype.toString.call(object)==="[object Boolean]";

module.exports=new Type("tag:yaml.org,2002:bool",{"kind":"scalar","resolve:resolveYamlBoolean,construct:constructYamlBoolean,predicate:isBoolean,represent:{"lowercase:funcion(object){return object?true:false},"uppercase:funcion(object){return object?"TRUE":"FALSE"},camlcase:funcion(object){return object?"true":"false"}})
null

null

null

null

null
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) { baseFlatten(value, depth -
1, predicate, isStrict, result) } else { array.push(result, value) } } else if (!isStrict) { result[result.length] = value } } return result } module.exports = baseFlatten, function(module.exports, __webpack_require__) { var Symbol = __webpack_require__(54), isArguments = __webpack_require__(134), isArray = __webpack_require__(21); var spreadableSymbol = Symbol ? Symbol.isConcatSpreadable : undefined; function isFlattenable(value) { return isArray(value) || isArguments(value) || !(spreadableSymbol && value && value[symbol]) } module.exports = is Flattenable, function(module.exports, __webpack_require__) { var apply = __webpack_require__(576); var nativeMax = Math.max; function overRest(func, start, transform) { start = nativeMax(start === undefined ? func.length -
1 : start, 0); return function() { var args = arguments, index = 1, length = nativeMax(args.length -
start, 0), array = Array(length); while (++index < length) { array[index] = args[start + index] } otherArgs = Array(start + 1); while (++index < start) { otherArgs[index] = args[index] } otherArgs[start] = transform(array); 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, args) } module.exports = apply } function constant(value) { return function() { return value } } module.exports = constant } function shortOut(func) { var count = 0, lastCalled = 0; return function() { var stamp = nativeNow(), remaining = HOT_SPAN - (stamp -
lastCalled); lastCalled = stamp; if (remaining > 0) { if (++count >= HOT_COUNT) { return arguments[0] } } else { count = 0 } return func.apply(undefi
ned, arguments) } } module.exports = shortOut, function(module.exports, __webpack_require__) { module.exports = '---
url: "https://petstore.swagger.io/v2/swagger.json"
dom_id: "#swagger-ui"
validatorUrl: "https://online.swagger.io/validator"'
};
AuthorizationPopup = function(_React$Component)(() => (0, inherits3.default)(AuthorizationPopup, _React$Component));

function AuthorizationPopup() {
    var _ref;
    var _temp, _this, _ret;

    (0, _classCallCheck3.default)(this, AuthorizationPopup);
    for (var _len = arguments.length, args = Array(_len), _key = 0; _key < _len; _key++) { args[_key] = arguments[_key] }
    _ret = (_temp = (_this = (0, _possibleConstructorReturn3.default)(this, (_ref = AuthorizationPopup.__proto__ || (0, _getPrototypeOf2.default)(AuthorizationPopup)).call.apply(_ref, [this].concat(args))), _this), _this.close = function() {
        var authActions = this.props.authActions;
        authActions.showDefinitions(false);
    }, _temp), (0, _possibleConstructorReturn3.default)(this, _ret)

    return AuthorizationPopup}

AuthorizeBtn = function(_React$Component) {
    (0, _inherits3.default)(AuthorizeBtn, _React$Component);
    function AuthorizeBtn() {
        (0, _classCallCheck3.default)(this, AuthorizeBtn);
        return (0, _possibleConstructorReturn3.default)(this, (AuthorizeBtn.__proto__ || (0, _getPrototypeOf2.default)(AuthorizeBtn)).apply(this, arguments))
    }

    function AuthorizeBtn() {
        (0, _classCallCheck3.default)(this, AuthorizeBtn);
        return (0, _possibleConstructorReturn3.default)(this, (AuthorizeBtn.__proto__ || (0, _getPrototypeOf2.default)(AuthorizeBtn)).apply(this, arguments))
    }

    return AuthorizeBtn}
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Error.__proto__||(0,_getPrototypeOf2.default)(AuthError)).apply(this,arguments))){_react2.default.createElement("div",{className:"errors",style:{backgroundColor:"#ffeeee",color:"red",margin:"1em"}},{_react2.default.createElement("b",{style:{textTransform:"capitalize",marginRight:"1em"}},source,"Level"),_react2.default.createElement("span",null,message))});}

AuthError|\_react2.default.Component;exports.default=AuthError;function(module,exports,__webpack_require__){"use strict";Object.defineProperty(exports,"__esModule",{value:true});var _assign=__webpack_require__(20);
var _assign2=_interopRequireDefault(_assign);
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);

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;
value=_this.getValue();
_this.setState({name:name,schema:schema,value:value});
});

ApiKeyAuth.prototype.constructor=ApiKeyAuth;

ApiKeyAuth.prototype.render=function(){var props2=this.props,schema=props2.schema,getComponent=props2.getComponent,errSelectors=props2.errSelectors,name=props2.name;var Input=getComponent("Input");var Row=getComponent("Row");var Col=getComponent("Col");var AuthError=getComponent("authError");var
Markdown=getComponent("Markdown");var JumpToPath=getComponent("JumpToPath",true);var
value=this.getValue();
var errors=errSelectors.allErrors().filter(function(err){return err.get("authId")===null});
_this=default.createElement("div",null,_react2.default.createElement("h4",null,_react2.default.createElement("code",null,name),schema.get("name")),
(apiKey:"_react2.default.createElement(JumpToPath,[path:["securityDefinitions",name]])),value&&&_react2.default.createElement("h6",null,Authorized),
_row=0;_createClass2.default.createElement(Row,null,_react2.default.createElement(Markdown,[source:schema.get("description")])),
_this=default.createElement(Row,null,_react2.default.createElement("p",null,Name:"_react2.default.createElement("code",null,name),schema.get("name"))));

return _react2.default.createElement("div",null,_react2.default.createElement("h4",null,_react2.default.createElement("code",null,name),schema.get("name"))));

Apisource.error(function(err){return err.get("authId")===null};)};

Apisource.error(function(err){return err.get("authId")===null});

Apisource.error(function(err){return err.get("authId")===null});
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const propTypes = require(1); var React = require(0);

function Example(props) {
    var example = props.example, showValue = props.showValue, getComponent = props.getComponent;

    return null;
}

export default Example;
isOAS3=specSelectors.isOAS3();
var IMPLICIT="implicit";
var PASSWORD="password";
var ACCESS_CODE=isOAS3() ? "authorizationCode" : "accessCode";
APPLICATION=isOAS3() ? "clientCredentials" : "application";
var flow=schema.get("flow");
var scopes=schema.get("allowedScopes") || schema.get("scopes");
var authorizedAuth=authSelectors.authorized().get(name);
var isAuthorized=!authorizedAuth;
var errors=errSelectors.allErrors().filter(function(err){
  return err.get("authId")===name
});
var isValid=!errors.filter(function(err){
  return err.get("source")==="validation"
}).size;
var description=schema.get("description");
return
_react2.default.createElement(JumpToPath,{path:["securityDefinitions",name]})),!this.state.appName?null:_react
2.default.createElement("h5",null,"Application: ",this.state.appName," ");
  description&&!_react2.default.createElement(Markdown,{source:schema.get("description")}),isAuthorized&&
_react2.default.createElement("h6",null,"Authorized");
  (flow===IMPLICIT||flow===ACCESS_CODE)&&_react2.default.createElement("p",null,"Authorization URL:
"+_react2.default.createElement("code",null,schema.get("authorizationUrl"))),(flow===PASSWORD||flow===ACC
ESS_CODE||flow===APPLICATION)&&&_react2.default.createElement("p",null,"Token URL:
"+_react2.default.createElement("code",null,schema.get("tokenUrl"))));
_react2.default.createElement("p",null,"Flow:
"+_react2.default.createElement("code",null,schema.get("flow")));
  flow!==PASSWORD?null:_react2.default.createElement(Row,null,_react2.default.createElement(Row,null,_react2.default
.createElement("label",{htmlFor:"oauth_username"},"username:");
  isAuthorized?_react2.default.createElement("code",null," ",this.state.username," ");
_react2.default.createElement(Col,{tablet:10,desktop:10},_react2.default.createElement("input",{id:"oauth_username",
type:"text",onChange:this.onInputChange})));
_react2.default.createElement("p",null,"Password:
"+_react2.default.createElement("code",null," ****"));
  isAuthorized?_react2.default.createElement("input",{id:"oauth_password",type:"password",onChange:
this.onInputChange}));
_react2.default.createElement("p",null,"Client credentials location:");
  isAuthorized?_react2.default.createElement("input",{id:"client_id",type:"text",required:flow===PASSWORD,value:
this.state.clientId,"data-name":"clientId",onChange:this.onInputChange}));
_react2.default.createElement("p",null,"Client secret:");
  isAuthorized?_react2.default.createElement("input",{id:"client_secret",value:this.state.clientSecret,"data-
name":"clientSecret",onChange:this.onInputChange}));
_react2.default.createElement("div",null,"Scopes:");
  scopes.map(function(des...
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---

cription.name) { return
  _react2.default.createElement(Row, {key: name }, _react2.default.createElement("div", { className: "checkbox" }, _react2.default.createElement(Input, { "data-value": name, id: name + "+flow++\-checkbox-" + this2.state.name, disabled: isAuthorized, type: "checkbox", onChange: this2.onScopeChange })), _react2.default.createElement("div", { className: "item" }, _react2.default.createElement("div", { className: "text" }, _react2.default.createElement("p", { className: "name" }, name), _react2.default.createElement("p", { className: "description" }, description)))).toArray()): null, errors.valueSeq().map(function (error, key) { return _react2.default.createElement(AuthError, { error: error, key: key }) })}, _react2.default.createElement("div", { className: "auth-btn-wrapper" }, isValid && (isAuthorized ? _react2.default.createElement(Button, { className: "btn modal-btn auth authorize", onClick: this.logout }, "Logout") : _react2.default.createElement(Button, { className: "btn modal-btn auth authorize", onClick: this.authorize }, "Authorize")), _react2.default.createElement(Button, { className: "btn modal-btn auth btn-done", onClick: this.close }, "Close"))) }}; return Oauth2; }}

_initialiseProps = function _initialiseProps() { var this3 = this; this.close = function (e) { e.preventDefault(); var authActions = this.props.authActions; authActions.showDefinitions(false) };

this.authorize = function () {
  var _props2 = this.props, authActions = _props2.authActions, errActions = _props2.errActions, getConfigs = _props2.getConfigs, authSelectors = _props2.authSelectors; var configs = getConfigs();

  authConfigs = authSelectors.getConfigs(); errActions.clear({ authId: name, type: "auth", source: "auth" }); (0, _oauth2Authorize.default)({ auth: this.state, authActions: authActions, errActions: errActions, configs: configs, authConfigs: authConfigs });

  this.onScopeChange = function (e) {
    var target = e.target;
    var checked = target.checked;
    var scope = target.dataset.value;
    if (checked && this3.state.scopes.indexOf(scope) === -1) {
      this.setState({
        scopes: this3.state.scopes.concat([scope])
      });
    } else {
      if (checked && this3.state.scopes.indexOf(scope) < 0) {
        this.setState({
          scopes: this3.state.scopes.filter(function (val) {
            return val !== scope
          })
        });
      }
    };

    this.onInputChange = function (e) {
      var _e$target = e.target, name = _e$target.dataset.name, value = _e$target.value;
      state = Object.assign({}, name, value);
      this3.setState(state);
    };

    this.logout = function (e) {
      e.preventDefault();
      var _props3 = this.props, authActions = _props3.authActions, errActions = _props3.errActions, getConfigs = _props3.getConfigs, authSelectors = _props3.authSelectors; var configs = getConfigs();

      authActions.clear({ authId: name, type: "auth", source: "auth" });
      authActions.logout([name]);
    }

    PHONE_NUMBER = this.props.phoneNumber;

    schema = auth.schema;

    exports.default = OAuth2;

    _window.__webpack_require__ = function authorize(_ref) {
      var auth = _ref.auth, authActions = _ref.authActions, errActions = _ref.errActions, configs = _ref.configs, refAuthConfigs = _ref.refAuthConfigs; var schema = auth.schema;

      var query = "[
        "password": 
        "authActions.authorizePassword(auth); return; 
        "application": 
        "authActions.authorizeApplication(auth); return; 
        "accessCode": 
        "authActions.authorizeApplication(auth); return;
        "clientCredentials": 
        "authActions.authorizeApplication(auth); return; 
        "authorizationCode": 
        "authActions.authorizeApplication(auth); return;
      
      var redirectUrl = configs.oauth2RedirectUrl; 

      if (typeof redirectUrl !== "undefined") {
        errActions.newAuthErr({ authId: name, source: "validation", level: "error", message: "oauth2 RedirectUrl configuration is not passed. OAuth2 authorization cannot be performed." });
      }
      
      query.push("redirect_uri=\"+encodeURIComponent(redirectUrl)\"");
      
      var scopeSeparator = authConfigs.scopeSeparator
    }
var Headers = function Headers(_ref) {
    var headers = _ref.headers,
        return
        _react2.default.createElement("div", null, _react2.default.createElement("h5", null, "Response
        headers")), _react2.default.createElement("pre", null, headers));
    var Duration = function Duration(_ref2) {
        var duration = _ref2.duration,
            return
            _react2.default.createElement("div", null, _react2.default.createElement("h5", null, "Request
        duration")), _react2.default.createElement("pre", null, duration, ", ms"));
    }
    LiveResponse = function (_React$Component) {
        (0, _inherits3.default)(LiveResponse, _React$Component);
        function LiveResponse() {
            (0, _classCallCheck3.default)(this, LiveResponse);
            return (0, _possibleConstructorReturn3.default)(this, (_React$Component
            === null || _React$Component === void 0 ? void 0 : _React$Component
            .prototype)["__proto__" || Object.getPrototypeOf(_React$Component)].
            apply(this, arguments));
        }(0, _createClass3.default)(LiveResponse, [{
            key: "shouldComponentUpdate",
            value: function shouldComponentUpdate(nextProps) {
                return
                this.props.response !== nextProps.response ||
                this.props.path !== nextProps.path ||
                this.props.method !== nextProps.method ||
                this.props.displayRequestDuration !== nextProps.displayRequestDuration;
            }
        }, {
            key: "render",
            value: function render() {
                var _props = this.props,
                    response = _props.response,
                    getComponent = _props.getComponent,
                    getConfigs = _props.getConfigs,
                    displayRequestDuration = _props.displayRequestDuration,
                    specSelectors = _props.specSelectors,
                    method = _props.method,
                    getComponent = _props.getComponent,
                    getConfigs = _props.getConfigs,
                    showMutatedRequest = getComponent, showMutatedRequest;
                var curlRequest = showMutatedRequest.specSelectors.mutatedRequestFor(path, method);;
                var status = response.get("status");
                var url = curlRequest.get("url");
                var headers = response.get("headers").toJS();
                var notDocumented = response.get("notDocumented");
                var isError = response.get("error");
                var body = response.get("text");
                var duration = response.get("duration");
                var headersKeys = (0, _keys2.default)(headers);
                var contentType = headers["Content-Type"];
                var Curl = getComponent("curl");
                var ResponseBody = getComponent("responseBody");
                var_resultObject = headersKeys.map(function (key) {
                    return
                    _react2.default.createElement("span", {
                        className: "headerline",
                        key: key,
                        , ", key.", , headers[key], , ")});
                });
                var hasHeaders = returnObject.length !== 0;
                return
                _react2.default.createElement("div", null, url, & _react2.default.createElement(Curl, {
                    request: curlRequest }),
                    url, _react2.default.createElement("div", null, _react2.default.createElement("h4", null, "Request
                    URL")), _react2.default.createElement("pre", null, url)), _react2.default.createElement("h4", null, "Server
                    response"), _react2.default.createElement("table", {
                        className: "responses-table live-responses-
                        table"}), _react2.default.createElement("thead", {
                        className: "responses-table live-responses-
                        header"}), _react2.default.createElement("tr", {
                        className: "response-
                        status"}), _react2.default.createElement("td", {
                        className: "col col_header response-
                        col_status"}), _react2.default.createElement("td", {
                        className: "col col_header response-
                        col_description"}, "Details")), _react2.default.createElement("tbody", {
                        className: "responses-table live-responses-
                        table"}), _react2.default.createElement("tr", {
                        className: "response-
                        status"}), _react2.default.createElement("td", {
                        className: "col col_header response-
                        col_status"}, status, notDocumented ? _react2.default.createElement("div", {
                        className: "response-
                        undocumented"}), _react2.default.createElement("i", null, " Undocumented
                        ") : null), _react2.default.createElement("td", {
                        className: "col response-
                        col_description"}), _react2.default.createElement("span", null, response.get("name") + ":
                        +response.get("message") : null), _react2.default.createElement(ResponseBody, {
                        content: body, contentType: contentType, url, headers: headers, getComponent: getComponent })
                )}, null, displayRequestDuration & displayRequestDuration ?
                _react2.default.createElement(Duration, {duration: duration})));
            }
        }
    };
    exports.default = LiveResponse;
    function(module, exports, __webpack_require__) {
        "use strict";
        Object.defineProperty(exports, "__esModule", { value: true });
        var _keys = __webpack_require__.(34);
        var _keys2 = _interopRequireDefault(_keys);
        var _typeof2 = __webpack_require__.(38);
        var _typeof3 = _interopRequireDefault(_typeof2);
        var
    }
})();
OnlineValidatorBadge = function(_React$Component) {
  (0, _inherits2.default)(OnlineValidatorBadge, _React$Component);

  function OnlineValidatorBadge(props, context) {
    (0, _classCallCheck3.default)(this, OnlineValidatorBadge);
    var _this = (0, _possibleConstructorReturn3.default)(this, (OnlineValidatorBadge.__proto__ || (0, _getPrototypeOf2.default)(OnlineValidatorBadge)).call(this, props, context));
    _this.getDefinitionUrl = function() {
      var specSelectors = _this.props.specSelectors;
      var urlObject = new _urlParse2.default(specSelectors.url(), _window2.default.location);
      return urlObject.toString();
    }
    var getConfigs = props.getConfigs;
    var _getConfigs = getConfigs(), validatorUrl = _getConfigs.validatorUrl;
    _this.state = { url: _this.getDefinitionUrl(), validatorUrl: validatorUrl === undefined ? "https://online.swagger.io/validator" : validatorUrl };
    return _this;
  }

  (0, _createClass3.default)(OnlineValidatorBadge, [
    { key: "componentWillReceiveProps", value: function componentWillReceiveProps(nextProps) {
      var getConfigs = nextProps.getConfigs;
      var _getConfigs = getConfigs();
      var validatorUrl = _getConfigs.validatorUrl;
      var state = _this.state;
      if (validatorUrl !== state.validatorUrl)
        return;
      state.url = _this.getDefinitionUrl();
      state.validatorUrl = validatorUrl;
      _this.setState(state, function() {
        _this.componentWillMount();
      });
    },
    { key: "render", value: function render() {
      var spec = _this.props.spec;
      var sanitizedValidatorUrl = (0, _utils.sanitizeUrl)(this.state.validatorUrl);
      if ((typeof spec === "undefined" ? "undefined" : (0, _typeof3.default)(spec)) === "object" && (0, _keys2.default)(spec).length) return null;
    }
  ]); return OnlineValidatorBadge;
}

ValidatorImage = function(_React$Component2) {
  (0, _inherits3.default)(ValidatorImage, _React$Component2);

  function ValidatorImage(props) {
    (0, _classCallCheck3.default)(this, ValidatorImage);
    var _this2 = (0, _possibleConstructorReturn3.default)(this, (ValidatorImage.__proto__ || (0, _getPrototypeOf2.default)(ValidatorImage)).call(this, props));
    _this2.state = { loaded: false, error: false };
    return _this2;
  }

  (0, _createClass3.default)(ValidatorImage, [
    { key: "componentDidMount", value: function componentDidMount() {
      var _this3 = this;
      var img = new Image;
      img.onload = function() {
        _this3.setState({ loaded: true });
      };
      img.onerror = function() {
        _this3.setState({ error: true });
      };
      img.src = this.props.src;
    },
    { key: "componentWillReceiveProps", value: function componentWillReceiveProps(nextProps) {
      var _this4 = this;
      img.src = nextProps.src;
    }
    },
    { key: "render", value: function render() {
      if (this.state.error) return _react2.default.createElement("div", { className: "OnlineValidatorBadge" }, _react2.default.createElement("img", { src: "Error" }));
      if (this.state.loaded) return null;
      return _react2.default.createElement("div", { className: "OnlineValidatorBadge" }, _react2.default.createElement("img", { src: this.state.url }));
    }
  ]); return ValidatorImage;
}

SwaggerImage = function(_React$Component3) {
  (0, _inherits3.default)(SwaggerImage, _React$Component3);

  function SwaggerImage(props) {
    (0, _classCallCheck3.default)(this, SwaggerImage);
    var _this2 = (0, _possibleConstructorReturn3.default)(this, (SwaggerImage.__proto__ || (0, _getPrototypeOf2.default)(SwaggerImage)).call(this, props));
    _this2.state = { loaded: false, error: false };
    return _this2;
  }

  (0, _createClass3.default)(SwaggerImage, [
    { key: "componentDidMount", value: function componentDidMount() {
      var img = new Image;
      img.onload = function() {
        _this2.setState({ loaded: true });
      };
      img.onerror = function() {
        _this2.setState({ error: true });
      };
      img.src = this.props.src;
    },
    { key: "componentWillReceiveProps", value: function componentWillReceiveProps(nextProps) {
      var _this3 = this;
      img.src = nextProps.src;
    }
    },
    { key: "render", value: function render() {
      if (this.state.error) return _react2.default.createElement("div", { className: "OnlineValidatorBadge" }, _react2.default.createElement("img", { src: "Error" }));
      if (this.state.loaded) return null;
      return _react2.default.createElement("div", { className: "OnlineValidatorBadge" }, _react2.default.createElement("img", { src: this.state.url }));
    }
  ]); return SwaggerImage;
}
SWAGGER2_OPERATION_METHODS=["get","put","post","delete","options","head","patch"];var OAS3_OPERATION_METHODS=SWAGGER2_OPERATION_METHODS.concat(["trace"]);var Operations=function(_React$Component){(0,_inherits3.default)(Operations,_React$Component);function Operations(){(0,_classCallCheck3.default)(this,Operations);return(0,_possibleConstructorReturn3.default)(this,(Operations.__proto__||(0,_getPrototypeOf2.default)(Operations)).apply(this,arguments))}(0,_createClass3.default)(Operations,[{key:"render",value:function render(){var _props=this.props,specSelectors=_props.specSelectors,getComponent=_props.getComponent,layoutSelectors=_props.layoutSelectors,layoutActions=_props.layoutActions,getConfigs=_props.getConfigs,fn=_props.fn;var taggedOps=specSelectors.taggedOperations();var OperationContainer=getComponent("OperationContainer",true);var OperationTag=getComponent("OperationTag");var _getConfigs=getConfigs(),maxDisplayedTags=_getConfigs.maxDisplayedTags;var filter=layoutSelectors.currentFilter();if(filter){if(filter!==true){taggedOps=fn.opsFilter(taggedOps,filter)}}if(maxDisplayedTags&&isNaN(maxDisplayedTags)&&maxDisplayedTags>=0){taggedOps=taggedOps.slice(0,maxDisplayedTags)}return _react2.default.createElement("div",null,taggedOps.map(function(tagObj,tag){var operations=tagObj.get("operations");return _react2.default.createElement(OperationTag,{key:"operation-"+tag,tagObj:tagObj,tag:tag,layoutSelectors:layoutSelectors,layoutActions:layoutActions,getConfigs:getConfigs,getComponent:getComponent,operations:operations.map(function(op){var path=op.get("path");var method=op.get("method");var specPath=_immutable2.default.List(["paths",path,method]);var validMethods=specSelectors.isOAS3()?OAS3_OPERATION_METHODS:SWAGGER2_OPERATION_METHODS;if(validMethods.indexOf(method)===-1){return null}else{return _react2.default.createElement(OperationContainer,{key:path,specPath:specPath,op:op,path:path,method:method,tag:tag})}}).toArray())}).toArray(),taggedOps.size<1?_react2.default.createElement("h3",null,"No operations defined in spec!"):null)}}]);return Operations}(_react2.default.Component);exports.default=Operations}
OperationTag = function(_ReactComponent) {
  (0, _inherits.default)(OperationTag, _ReactComponent);
  function OperationTag() {
    (0, _createClass.default)(OperationTag, [{
      key: "render",
      value: function render()
    }])
    OperationTag.prototype._render = function render()
    var _props = this.props,
        tagObj = _props.tagObj,
        tag = _props.tag,
        children = _props.children,
        layoutSelectors = _props.layoutSelectors,
        layoutActions = _props.layoutActions,
        get_configs = _props.get_configs,
        getConfigs = _props.getConfigs,
        getComponent = _props.getComponent;
    var _getConfigs = get_configs(),
        docExpansion = _getConfigs.docExpansion,
        deepLinkingEnabled = get_configs().deepLinking;
    var isDeepLinkingEnabled = deepLinkingEnabled && deepLinkingEnabled;
    var DeepLink = getComponent("DeepLink");
    var Link = getComponent("Link");
    var tagDescription = tagObj.getIn(["tagDetails", "description"], null);
    var tagExternalDocsDescription = tagObj.getIn(["tagDetails", "externalDocs", "description"], null);
    var tagExternalDocsUrl = tagObj.getIn(["tagDetails", "externalDocs", "url"], null);
    var isShownKey = ["operations-tag", tag];
    var showTag = layoutSelectors.isShown(isShownKey, docExpansion === "full" || docExpansion === "list");
    return _react.default.createElement("div", {
      className: showTag ? "opblock-tag-section is-open" : "opblock-tag-section",
      id: isShownKey.map((v) => (0, _utils.escapeDeepLinkPath)(v)).join("-") + "," + dateTag + "," + dataIsOpen + "", showTag,
      data-tag: tag,
      data-is-open: showTag
    }, 
    _react.default.createElement(Collapse, {
      isOpened: showTag
    }, children)))
  }
  OperationTag.defaultProps = {tagObj: _immutable.default.fromJS({}), tag: ""};
  exports.default = OperationTag,
};
_interopRequireDefaul t(obj){return obj&&obj._esModule?obj:[default:obj]}
var Operation=function(_PureComponent){(0,_inherits3.default)(Operation,_PureComponent);function Operation(){(0,_classCallCheck3.default)(this,Operation);return(0,_possibleConstructorReturn3.default)(this,(Opera tion._proto || [0,_getPrototypeOf2.default])(Operation)).apply(this,[arguments]))}(0,_createClass3.default)(Operation,
[{key:"render",value:function render(){var 
_props= this, props, specPath, response= props.response, request= props.request, toggleShown= props.toggleShown, onTryoutClick= props.onTryoutClick, onExecute= props.on Execute, fn= props.fn, getComponent= props.getComponent, get个赛季= props.getSession, specActions= props.specActions, specSelectors= props.specSelectors, authActions= props.authActions, authSelectors= props.authSelectors, oas3Actions= props.oas3Actions, oas3Selectors= props.oas3Selectors; var operationProps= this.props.operation; var _operationProps$toJS=operationProps.toJS(); deprecated= _operationProps$toJS.deprecated, isShown= _operationProps$toJS.isShown, path= _operationProps$toJS.path, method= _operationProps$toJS.method, op= _operationProps$toJS.op, tag= _operationProps$toJS.tag, operationId= _operationProps$toJS.operationId, allowTryItOut= _operationProps$to JS, allowTryItOut, displayRequestDuration= _operationProps$toJS.displayRequestDuration, tryItOutEnabled= _operationProps$toJS.tryItOutEnabled, executeInProgress= _operationProps$toJS.executeInProgress; var description= op.description, externalDocs= op.externalDocs, schemes= op.schemes; var operation= operationProps.getIn(["op"]); var responses= operation.get("responses"); var parameters= (0,_utils.getListItem)(operation,"parameters");
var operationScheme= specSelectors.operationScheme(path, method); var isShownKey= ["operations", tag, operationId]; var extensions= (0,_utils.getExtensions)(operation); var Parameters= getComponent("parameters"); var Execute= getComponent("execute"); var
Clear= getComponent("clear"); var Collapse= getComponent("Collapse"); var
Markdown= getComponent("Markdown"); var Schemes= getComponent("schemes"); var
OperationServers= getComponent("OperationServers"); var OperationExt= getComponent("OperationExt"); var OperationSummary= getComponent("OperationSummary"); var Link= getComponent("Link");
var _getConfigs= getConfigs(), showExtensions= _getConfigs.showExtensions; if (responses && response && response.size > 0) {
var notDocumented= !responses.get(String(response.get("status"))) && !responses.get("default"); response= response.set("notDocumented", !notDocumented) var onChangeKey= [path, method]; return 
_react2.default.createElement("div", {className: deprecated ? "opblock opblock-deprecated" : isShown ? "opblock opblock +-method+", isOpen: "opblock opblock--+-method+-+method-id; (0, _utils.escapeDeepLinkPath)(isShownKey.join("-

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$toJS.originalOperationId, displayOperationId = operationProps.$toJS.displayOperationId;
var resolvedSummary = op.summary; var security = operationProps.get("security");

AuthorizeOperationBtn = getComponent("authorizeOperationBtn");

OperationSummaryMethod = getComponent("OperationSummaryMethod");

OperationSummaryPath = getComponent("OperationSummaryPath");

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(OperationSummaryMethod, {getNodeId: (getOperationId & & originalOperationId) || op.getInstanceId()})
.react2.default.createElement(OperationSummaryMethod, {getNodeId: specPath}), _react2.default.createElement(OperationSummaryMethod, {getNodeId: resolvedSummary || summary}), displayOperationId && (originalOperationId || operationId) ? _react2.default.createElement("span", {className: "opblock-summary-operationId"}, originalOperationId || operationId) : null, !security || !security.count() ? null : _react2.default.createElement(AuthorizeOperationBtn,
{isAuthorized: isAuthorized, onClick: function () {var applicableDefinitions = authSelectors.definitionsForRequirements(security); authActions.showDefinitions(applicableDefinitions)}}, _react2.default.createElement(JumpToPath, {path: specPath}));

return OperationSummaryMethod(function (_react.PureComponent) {

OperationSummaryMethod = function (_PureComponent) {

_.react2.default.createElement(JumpToPath, {path: specPath}));

return OperationSummaryMethod(_react.PureComponent); OperationSummaryMethod.defaultProps = {operationProps: null};

exports.default = OperationSummaryMethod;

}).


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function ResponseBody.PropTypes(content) {
  return this.state.parsedContent
}

var ResponseBody = function (ResponseBody.PropTypes) {
  var _ref;
  var _temp, _this, _ret;
  (0, _classCallCheck3.default)(this, ResponseBody.PropTypes);
  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 = ResponseBody.PropTypes).__proto__ || (0, _getPrototypeOf2.default)(ResponseBody.PropTypes)).call.apply(_ref, [this].concat(args))), _this), _this.state = {
    parsedContent: null
  }, _this.updateParsedContent = function (prevContent) {
    var content = this.props.content;
    if (prevContent === content) {
      return
    }
    if (content && content instanceof Blob) {
      var reader = new FileReader;
      reader.onload = function () {
        this.setState({ parsedContent: reader.result });
      };
      reader.readAsText(content);
    } else {
      this.setState({ parsedContent: content.toString() });
    }

    (0, _possibleConstructorReturn3.default)(_this, _ret)(0, _createClass3.default)(ResponseBody.PropTypes, [{
      key: "componentDidMount",
      value: function () {
        this.updateParsedContent(null);
      }
    }, {
      key: "componentDidUpdate",
      value: function () {
        this.updateParsedContent(this.props.content);
      }
    }, {
      key: "render",
      value: function () {
        var _props = this.props, contentType = _props.contentType, url = _props.url, _props$headers = _props.headers, headers = _props.headers === undefined ? {} : _props.headers, getContent = _props.getComponent, parsedContent = this.state.parsedContent, HighlightCode = this.props.componentDidMount;

        if (contentType === "text/html") {
          try {
            body = (0, _stringify2.default)(JSON.parse(content), null, "\n")
          } catch (error) {
            body = "can't parse JSON. Raw result:\n\n" + content;
          }
          bodyEl = React.createElement(HighlightCode, { downloadable: true, fileName: "response" + (new Date).getTime(), content: body });
        } else {
          var filename = (0, _utils2.default.extractFileNameFromContentDispositionHeader)(disposition, null);
          if (filename) {
            if (filename.startsWith("Blob")) {
              var blob = new Blob([content], { type: filename });
              var blobEl = React.createElement("a", { href: URL.createObjectURL(blob), download: filename + "." }, filename);
              bodyEl = React.createElement("div", null, blobEl);
            } else if (filename.startsWith("text/")) {
              bodyEl = React.createElement("pre", null, content);
            } else if (filename.startsWith("application/")) {
              var type = filename.split(/;|
\n/).pop();
              if (type.startsWith("octet-stream")) {
                var reader = new FileReader;
                reader.onload = function () {
                  var contentDisposition = reader.result;
                  if (contentDisposition) {
                    var filename = (0, _utils2.default.extractFileNameFromContentDispositionHeader)(contentDisposition, null);
                    if (filename) {
                      var blob = new Blob([content], { type: filename });
                      var blobEl = React.createElement("a", { href: URL.createObjectURL(blob), download: filename + "." }, filename);
                      bodyEl = React.createElement("div", null, blobEl);
                    }
                  }
                };
                reader.readAsText(content);
              }
            }
          }
        }

        return (0, _possibleConstructorReturn3.default)(_this, _ret);
      }
    }]);
  };

  return ResponseBody.PropTypes;
}
if(/xml/i.test(contentType)){body=(0,_xmlButPrettier2.default)(content,{textNodesOnSameLine:true,indentor:" "});bodyEl=_react2.default.createElement(HighlightCode,{downloadable:true,fileName:downloadName+".xml",value:body})}else if(/audio/v/i.test(contentType)){bodyEl=_react2.default.createElement("pre",null,react2.default.createElement("audio",{controls:true},react2.default.createElement("source",{src:url,type:contentType})))}else if(/image//i.test(contentType)){if(contentType.includes("svg")){bodyEl=_react2.default.createElement("div",null," " ,content," ");}else{bodyEl=_react2.default.createElement("img",{style:{maxWidth:"100%"},src:window.URL.createObjectURL(content)})}}else if(/^image//.test(contentType)){bodyEl=_react2.default.createElement(HighlightCode,{downloadable:true,fileName:downloadName+".txt",value:content})}else if((0,_toLower2.default)(contentType)==="text/html"||/text/plain/.test(contentType)){bodyEl=_react2.default.createElement(HighlightCode,{downloadable:true,fileName:downloadName+".html",value:content})}else if(contentType==="string"){bodyEl=_react2.default.createElement(HighlightCode,{downloadable:true,fileName:downloadName+".txt",value:content})}else if(content.size>0){if(parsedContent){bodyEl=_react2.default.createElement("div",null,react2.default.createElement("p",{className:"i"},"Unrecognized response type; displaying content as text."),react2.default.createElement(HighlightCode,{downloadable:true,fileName:downloadName+".txt",value:parsedContent}))}else{bodyEl=_react2.default.createElement("p",{className:"i"},"Unrecognized response type; unable to display.");}else{bodyEl=null}return!bodyEl?null:_react2.default.createElement("div",null,_react2.default.createElement("h5",null,"Response body"),bodyEl))}));return ResponseBody}(_react2.default.PureComponent);exports.default=require("xml-but-prettier"),function(module,exports){module.exports=require("xml-but-prettier")},function(module,exports,__webpack_require__){var toString=__webpack_require__(45);function toLower(value){return toString(value).toLowerCase()}module.exports=toLower},function(module,exports,__webpack_require__){"use strict";Object.defineProperty(exports,"__esModule",{value:true});var _parameters=__webpack_require__(633);Object.defineProperty(exports,"Parameters",{enumerable:true,get:function get(){return _interopRequireDefault(_parameters).default}});function _interopRequireDefault(obj){return obj&&obj.__esModule?obj:{default:obj}}},function(module,exports,__webpack_require__){"use strict";Object.defineProperty(exports,"__esModule",{value:true});var _toConsumableArray2=__webpack_require__(57);var _toConsumableArray3=_interopRequireDefault(_toConsumableArray2);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 _immutable=__webpack_require__(7);var _immutable2=_interopRequireDefault(_immutable);var _reactImmutableProptypes=__webpack_require__(9);var _reactImmutableProptypes2=_interopRequireDefault(_reactImmutableProptypes);function _interopRequireDefault(obj){return obj&&obj.__esModule?obj:{default:obj}}var eachMap=function eachMap(iterable,fn){return iterable.valueSeq().filter(_immutable2.default.Map.isMap).map(fn)};var Parameters=function(_Component){(0,_inherits3.default)(Parameters,_Component);function Parameters(props){(0,_possibleConstructorReturn3.default(this,(Parameters.__proto__||(_getPrototypeOf2.default(Parameters)))).constructor.apply(this,[arguments].concat(_toConsumableArray3.default(props)))},Parameters.PropTypes=(0,_getPrototypeOf2.default(Parameters)).PropTypes.slice(1),Parameters.PropTypes=Object.keys(Parameters.PropTypes).reduce(function(obj,propName){return Object.assign(obj,Parameters.PropTypes[propName])},{}),Parameters.PropTypes.PropTypes=Parameters.PropTypes.PropTypes.concat(_reactImmutableProptypes2.default.PropTypes.map(function(propType){return propType.PropTypes}))};module.exports=Parameters;
Overview=function(_React$Component){(0,_inherits3.default)(Overview,_React$Component);function
Overview(){var _ref;(0,_classCallCheck3.default)(this,Overview);for(var
_len=arguments.length,props=Array(_len),_key=0;_key<_len;_key++)props[_key]=arguments[_key]}var
this=(0,_possibleConstructorReturn3.default)(this,(0,_createClass3.default)(Overview,
[{key:"_setTagShown",value:function
_setTagShown(showTagId,shown){this.props.layoutActions.show(showTagId,shown)}},{key:"showOp",value:function
showOp(key,shown){var
layoutActions=this.props.layoutActions;layoutActions.show(key,shown)}},{key:"render",value:function
render(){var
props=this.props.specSelectors._props.specSelectors.layoutSelectors._props.layoutSelectors.layoutActions._props.layou
tActions.getComponent=props.getComponent;var taggedOps=props.specSelectors.taggedOperations();var
collapse=getComponent("Collapse");return
_react2.default.createElement("div",null,_.react2.default.createElement("h4",{class:="overview-ti
title"},"Overview"),taggedOps.map(function(tagObj,tag){var operations=tagObj.get("operations");var
showTagId=tag;var showTag=layoutSelectors.isShown(showTagId);var
toggleShow=function toggleShow(){return layoutActions.show(showTagId,!showTag)};return
_react2.default.createElement("div",{key:"overview-"+tag},_.react2.default.createElement("h4",{onClick:toggleShow,class:="link overview-tag"}," ","showTag?-"+"+"),_.react2.default.createElement(Collapse,{isOpened:showTag,animated:true},operations.map(function(op){
var _op=op.toObject();path=_op.getPath();method=_op.getMethod();id=_op.getId();var
showOpIdPrefix="operations";var showOpId=id;var
shown=layoutSelectors.isShown([showOpIdPrefix,showOpId]);return
_react2.default.createElement(OperationLink,{key:id,path:path,method:method,id:path"+-"+
"+method,shown:shown,showOpId:showOpId,showOpIdPrefix:showOpIdPrefix.href:_react2.default.createElement("a",
{href:_op.getPath(),target:""})),toArray()}).toLocaleString(true),taggedOps.size<1&
&_.react2.default.createElement("h3","No operations defined in spec! ");});});return
Overview}(_React$Component);exports.default=Overview;var
OperationLink=exports.OperationLink=function(_React$Component2){(0,_inherits3.default)(OperationLink,
_Ract$Component2);function OperationLink(props){(0,_classCallCheck3.default)(this,OperationLink);var
this=(0,_possibleConstructorReturn3.default)(this,(0,_createClass3.default)(OperationLink,
[{key:"_onClick",value:function _onClick(){var
props2=this.props.showOpId=props2.showOpId,showOpIdPrefix=props2.showOpIdPrefix.href=_react2.default.createElement("a",
{href:_op.getPath(),target:""})),toArray()}).toLocaleString(true),taggedOps.size<1&
&_.react2.default.createElement("h3","No operations defined in spec! ");});};
return
OperationLink}(_React$Component);exports.default=OperationLink;var
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```javascript
_props5=this.props.info._props5.info.url=_props5.url.host=_props5.host.basePath=_props5basePath.getComponents._props5.getComponent.externalDocs=_props5.externalDocs;var version=info.get("version");var description=info.get("description");var title=info.get("title");var termsOfService=info.get("termsOfService");var contact=info.get("contact");var license=info.get("license");var _toJS=(externalDocs||(0,_immutable.fromJS)({})).toJS();var description=info.get("description");var termsOfService=info.get("termsOfService");

_versionStamp=getComponent("VersionStamp");var InfoUrl=getComponent("InfoUrl");var InfoBasePath=getComponent("InfoBasePath");return _react2.default.createElement("div",{className:"info"},
  _react2.default.createElement("hgroup",{className:"main"},
    _react2.default.createElement("h2",{className:"title"},
      title,version&&_react2.default.createElement(VersionStamp,{version:version})),
    host||basePath?_react2.default.createElement(InfoBasePath,{host:host,basePath:basePath}):
      null,
    url&&_react2.default.createElement(InfoUrl,{url:url,getComponent:getComponent})),
  _react2.default.createElement("div",{className:"description"},
    description,termsOfService&&_react2.default.createElement("div",{className:"info__tos"},
      termsOfService)),
  contact&&contact.size?_react2.default.createElement(Contact,{getComponent:getComponent,data:contact}):
    null,
  license&&license.size?_react2.default.createElement(License,{getComponent:getComponent,license:license}):
    null,
  externalDocsUrl?_react2.default.createElement(Link,{href:(0,_utils.sanitizeUrl)(externalDocsUrl)},
    externalDocsDescription||externalDocsUrl):null));

Info(_react2.default.Component).exports.default=Info, function(module,exports,__webpack_require__) { "use strict"; module.exports = Info; };
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ultModelsExpandDepth; if (!definitions.size || defaultModelsExpandDepth < 0) return null; var showModels = layoutSelectors.isShown("models", defaultModelsExpandDepth > 0 && docExpansion !== "none"); var specPathBase = this.getSchemaBasePath(); var isOAS3 = specSelectors.isOAS3();
var ModelWrapper = getComponent("ModelWrapper"); var Collapse = getComponent("Collapse");
var ModelCollapse = getComponent("ModelCollapse"); var JumpToPath = getComponent("JumpToPath");

_react2.default.createElement("section", {className: showModels ? "models is-open" : "models"}, _react2.default.createElement("h4", {onClick: function (onClick) { return layoutActions.show("models", !showModels) }}, _react2.default.createElement("span", null, isOAS3 ? "Schemas" : "Models"), _react2.default.createElement("svg", {width: "20", height: "20"}, _react2.default.createElement("use", {xlinkHref: showModels ? "#large-arrow-down" : "#large-arrow"}))), _react2.default.createElement(Collapse, {isOpened: showModels}, definitions.entrySeq().map(function (_ref2) {
    var _ref3 = (0, _slicedToArray3.default)(_ref2, 1), name = _ref3[0];
    var fullPath = [].concat((0, _toConsumableArray3.default)(specPathBase), [name]);
    var schemaValue = specSelectors.specResolvedSubtree(fullPath);
    var rawSchemaValue = specSelectors.specJson().getIn(fullPath);
    var schema = _immutable.Map.isMap(schemaValue) ? schemaValue : _immutable2.default.Map();
    var displayValue = schema.get("title") ? schema.get("title") : rawSchema.get("title");
    var isShown = layoutSelectors.isShown(["models", name], false);
    if (isShown && &schema.size > 0) {
        this2.props.specActions.requestResolvedSubtree([].concat((0, _toConsumableArray3.default)(this2.getSchemaBasePath()), [name]))
    }
    var specPath = _immutable2.default.List([].concat((0, _toConsumableArray3.default)(specPathBase), [name]));
    var content = _react2.default.createElement(ModelWrapper, {name: name, expandDepth: defaultModelsExpandDepth, schema: specPath.valueOf(), displayValue: displayValue, specPath: specPath, specSelectors: specSelectors, getConfigs: getConfigs, layoutSelectors: layoutSelectors, layoutActions: layoutActions });
    var title = _react2.default.createElement("span", {className: "model-box"}, 
        _react2.default.createElement("span", {className: "model model-title"}, displayName));
    return _react2.default.createElement("div", {id: "model-" + name, className: "model-container", key: ":models-section-" + name}, _react2.default.createElement(Collapse, {collapsedContent: _this2.getCollapsedContent(name), onToggle: _this2.handleToggle, title: title, displayValue: displayValue, modelName: name, hideSelfOnExpand: true, expanded: defaultModelsExpandDepth > 0 && isShown}, content)).toArray()).toArray());
})());

Models []).forEach(function (module, exports, __webpack_require__) { "use strict"; Object.defineProperty(exports, "__esModule", {value: true}); var _react = __webpack_require__(0);

var _react2 = _interopRequireDefault(_react);
var _reactImmutableProptypes = __webpack_require__(9);
var _reactImmutableProptypes2 = _interopRequireDefault(_reactImmutableProptypes);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }}

var EnumModel = function EnumModel(_ref) {
    var value = _ref.value, getComponent = _ref.getComponent;
    var ModelCollapse = getComponent("ModelCollapse");
    var collapsedContent = _react2.default.createElement("span", null, 
        Array( _"value.count()", _") 
    ).return _react2.default.createElement("span", {className: "prop-enum"}, "Enum:", _react2.default.createElement(Collapse, {collapsedContent: collapsedContent }, ["[ ", _"value.join(" ")", "]"]));
    exports.default = EnumModel; function (module, exports, __webpack_require__) { "use strict"; Object.defineProperty(exports, "__esModule", {value: true});
    var _stringify = __webpack_require__(33);
    var _extends2 = __webpack_require__(22);
    var _stringify2 = _interopRequireDefault(_stringify); var _exports = _interopRequireDefault(exports);
    exports.default = _exports.default; function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj } }
    var _extends = Object.assign; var _stringify = _stringify2.default; var _interopRequireDefault = _interopRequireDefault; var _Exports = _Exports || {}; var _exports2 = _Exports.exports || {}; var _Component = _Exports.Component || {};
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_propTypes=__webpack_require__(1);var _propTypes2=_interopRequireDefault(_propTypes);var
_reactImmutableProptypes=__webpack_require__(9);var
_reactImmutableProptypes2=_interopRequireDefault(_reactImmutableProptypes);function
_interopRequireDefault(obj){return obj&&obj.__esModule?obj:{default:obj}}var
propStyle={color:"#999",fontStyle:"italic"};var
ArrayModel=function(_Component){(0,_inherits3.default)(ArrayModel,_Component);function
ArrayModel(){(0,_classCallCheck3.default)(this,ArrayModel);return(0,_possibleConstructorReturn3.default)(this,(
ArrayModel.__proto__||(0,_getPrototypeOf2.default)(ArrayModel)).apply(this,arguments))}(0,_createClass3.default
)(ArrayModel,[{key:"render",value:function render(){var
_props=this.props,getComponent=_props.getComponent,getConfigs=_props.getConfigs,schema=_props.schema,de
pth=_props.depth,expandDepth=_props.expandDepth,name=_props.name,displayName=_props.displayName,specP
ath=_props.specPath;var description=schema.get("description");var items=schema.get("items");var
title=schema.get("title")||displayName||name;var
properties=schema.filter(function(v,key){return["type","items","description","$$ref"].indexOf(key)===-1});var
Markdown=getComponent("Markdown");var ModelCollapse=getComponent("ModelCollapse");var
Model=getComponent("Model");var Property=getComponent("Property");var
titleEl=title&&_react2.default.createElement("span",{className:"modeltitle"},_react2.default.createElement("span",{className:"model-title__text"},title));return
_react2.default.createElement("span",{className:"model"},_react2.default.createElement(ModelCollapse,{title:titl
eEl,expanded:depth<=expandDepth,collapsedContent:"[...]"},"[",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,!description?properties.size?_react2.default.createElement
("div",{className:"markdown"}):null:_react2.default.createElement(Markdown,{source:description}),_react2.defa
ult.createElement("span",null,_react2.default.createElement(Model,(0,_extends3.default)({},this.props,{getConfigs:
getConfigs,specPath:specPath.push("items"),name:null,schema:items,required:false,depth:depth+1}))),"]"))}}]);retu
rn
ArrayModel}(_react.Component);exports.default=ArrayModel},function(module,exports,__webpack_require__){"u
se strict";Object.defineProperty(exports,"__esModule",{value:true});var
_slicedToArray2=__webpack_require__(15);var _slicedToArray3=_interopRequireDefault(_slicedToArray2);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
_utils=__webpack_require__(8);function _interopRequireDefault(obj){return
obj&&obj.__esModule?obj:{default:obj}}var propStyle={color:"#6b6b6b",fontStyle:"italic"};var
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

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const TryItOutButton = ({ onTryoutClick, onCancelClick, isDisabled }) => {
  return (
    <div className="try-out__container">
      {isDisabled ? null : 
        <React.Fragment>
          <button className="btn try-out__btn" onClick={onTryoutClick}>Try it out</button>
          <button className="btn try-out__btn" onClick={onCancelClick}>Cancel</button>
        </React.Fragment>}
    </div>
  )
}

TryItOutButton.defaultProps = {
  onTryoutClick: () => {},
  onCancelClick: () => {},
  isDisabled: false
}

export default TryItOutButton;

// VersionPragmaFilter component

const VersionPragmaFilter = ({ bypass, isSwagger2, isOAS3, alsoShow }) => {
  if (bypass) {
    return (<div>{children}</div>)
  }
  if (isSwagger2 && isOAS3) {
    return (<div className="version-pragma">
      {alsoShow ? (<div className="version-pragma__message version-pragma__message--ambiguous">
        <div><h3>Unable to render this definition</h3><p>Swagger and OpenAPI fields cannot be present in the same Swagger or OpenAPI definition. Please remove one of the fields.</p></div>
        <p>Supported version fields are</p>
        <code>swagger: "2.0"</code> and those that match</div>) : null}
    </div>)
  }
  if (!isSwagger2 && !isOAS3) {
    return (<div className="version-pragma">
      {alsoShow ? (<div className="version-pragma__message version-pragma__message--missing">
        <div><h3>Unable to render this definition</h3><p>The provided definition does not specify a valid version field.</p></div>
        <p>Supported version fields are</p>
        <code>swagger: "2.0"</code> and those that match</div>) : null}
    </div>)
  }
  return (<div>{children}</div>)
}

VersionPragmaFilter.defaultProps = {
  alsoShow: null,
  children: null,
  bypass: false,
  isSwagger2: false,
  isOAS3: false
}

export default VersionPragmaFilter;
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 BaseLayout = function (_React$Component) {
    (0, _inherits3.default)(BaseLayout, _React$Component);
    function BaseLayout() {
        (0, _classCallCheck3.default)(this, BaseLayout);
        return (0, _possibleConstructorReturn3.default)(this, (BaseLayout.__proto__ || (0, _getPrototypeOf2.default)(BaseLayout)).apply(this, arguments));
    }
    (0, _createClass3.default)(BaseLayout, [
        {
            key: "render",
            value: function render() {
                var _props = this.props,
                    errSelectors = _props.errSelectors,
                    specSelectors = _props.specSelectors,
                    getComponent = _props.getComponent;

                var SvgAssets = getComponent("SvgAssets");
                var InfoContainer = getComponent("InfoContainer", true);
                var VersionPragmaFilter = getComponent("VersionPragmaFilter");
                var Operations = getComponent("operations", true);
                var Models = getComponent("Models", true);
                var Row = getComponent("Row");
                var Col = getComponent("Col");
                var Errors = getComponent("errors", true);
                var ServersContainer = getComponent("ServersContainer", true);
                var SchemesContainer = getComponent("SchemesContainer", true);
                var AuthorizeBtnContainer = getComponent("AuthorizeBtnContainer", true);
                var FilterContainer = getComponent("FilterContainer", true);
                var isSwagger2 = specSelectors.isSwagger2();
                var isOAS3 = specSelectors.isOAS3();
                var isSpecEmpty = specSelectors.specStr();
                var loadingStatus = specSelectors.loadingStatus();
                var loadingMessage = null;
                if (loadingStatus === "loading") {
                    loadingMessage = _react2.default.createElement("div", { className: "info" }, _react2.default.createElement("div", { className: "loading-container" }, _react2.default.createElement("div", { className: "loading" })))
                }
                if (loadingStatus === "failed") {
                    loadingMessage = _react2.default.createElement("div", { className: "info", style: { maxWidth: "880px", marginLeft: "auto", marginRight: "auto", textAlign: "center" } }, _react2.default.createElement("h4", { className: "title" }, "Failed to load API definition."), _react2.default.createElement(Errors, null));
                }
                if (loadingStatus === "failedConfig") {
                    var lastErr = errSelectors.lastError();
                    loadingMessage = _react2.default.createElement("div", { className: "info", style: { maxWidth: "880px", marginLeft: "auto", marginRight: "auto", textAlign: "center" } }, _react2.default.createElement("h4", { className: "title" }, "Failed to load remote configuration."), _react2.default.createElement(Errors, null));
                }
                if (isSpecEmpty) {
                    loadingMessage = _react2.default.createElement("h4", null, "No API definition provided.");
                }
                if (loadingMessage) {
                }
                var lastErrMsg = lastErr.error;"
err.index==i));if(err.length)errors=[err[0].error+i]}

_react2.default.createElement("div",{key:i,className:"json-schema-form-item"}).

_react2.default.createElement(JsonSchemaForm,{fn:fn,GetComponent:getComponent,value:item,onChange:function(onChange)(val)

_onChange(onChange(val),i));

disabled?_react2.default.createElement(Button,{className:"btn btn-sm json-schema-form-item-remove",onClick:function onClick()

{ return this4.removeItem(i)}},"

- ");null)).toArray().map(i=>(disabled?_react2.default.createElement(Button,{className:"btn btn-sm json-schema-form-item-add "+(errors.length?"invalid":null),onClick:this.addItem,"Add item":null}));return

JsonSchema_array}_{react PureComponent);JsonSchema_array.defaultProps=JsonSchemaDefaultProps;var

JsonSchema_boolean=exports.JsonSchema_boolean=function(_Component3){(0,_inherits3.default)(JsonSchema_boolean,_Component3);function JsonSchema_boolean(){var 

_args=Array(_len2),_key2=0;_key2<_len2;_key2++)

[ arguments[_key2]]

return

(_temp2=(_this5=(_0_possibleConstructorReturn3.default)(this),(_ref2=JsonSchema_boolean.__proto__||(0,_getPrototypeOf2.default)(JsonSchema_boolean)).call.apply(_ref2,

[ this].concat(args))),_this5),_this5.onEnumChange=

function(val){return

_this5.props.onChange(val)},

(_temp2),(_0_possibleConstructorReturn3.default)(this,(_this5=_react2.default.createElement(Select,{className:errors.length?"invalid":"",title:errors.length?errors:"",value:String(value),disabled:disabled,allowedValues:(0,_immutable.fromJS)(schema.enum||[true,false]),allowEmptyValue:!schema.enum||!required,onChange:this.onEnumChange})

)}}

});return

JsonSchema_boolean}(_react.Component);JsonSchema_boolean.defaultProps=JsonSchemaDefaultProps;var

JsonSchema_object=exports.JsonSchema_object=function(_PureComponent2){(0,_inherits3.default)(JsonSchema_object,_PureComponent2);function JsonSchema_object(){var 

_this6=(0,_possibleConstructorReturn3.default)(this,(JsonSchema_object.__proto__||(0,_getPrototypeOf2.default)(JsonSchema_object)).call(this));

_this6.onChange=function(value){this.props.onChange(value)};this.handleOnChange=function(e){var inputValue=e.target.value;this.onChange(inputValue)};return

_this6}(0,_createClass3.default)(JsonSchema_object,

[{key:"render",value:function render(){var

_errors=size?errors.join(",

"),":"},value:function(value){var

_enabled=size?disabled:disabled,onChange:()=>this.handleOnChange(value)}],this

.handleOnChange(value)}

);return

JsonSchema_object}(_react PureComponent);JsonSchema_object.defaultProps=JsonSchemaDefaultProps;function

valueOrEmptyList(value){return

_immutable.List.isList(value)?value:(0,_immutable.List)()}

(module.exports){module.exports=require("react-debounce-input")},function(module,exports,__webpack_require__){var

map={"./all.js":294,"./auth/actions.js":155,"./auth/index.js":248,"./auth/reducers.js":249,"./auth/selectors.js":250,"./auth/spec-wrap-actions.js":251,"./configs/actions.js":157,"./configs/helpers.js":156,"./configs/index.js":254,"./configs/reducers.js":257,"./configs/selectors.js":256,"./configs/spec-actions.js":255,"./deep-linking/helpers.js":260,"./deep-linking/index.js":258,"./deep-linking/layout.js":259,"./deep-linking/operation-tag-wrapper.jsx":262,"./deep-linking/operation-wrapper.jsx":261,"./download-url.js":253,"./err/actions.js":94,"./err/error-transformers/hook.js":214,"./err/error-transformers/transformers/not-of-type.js":215,"./err/error-
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Found in path(s):
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-jar/swagger-static/swagger-ui.js
No license file was found, but licenses were detected in source scan.

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No license file was found, but licenses were detected in source scan.
ATE_PARAMS","SET_RESPONSE","SET_REQUEST","SET_MUTATED_REQUEST","LOG_REQUEST","CLEAR_RESPONSE","CLEAR_REQUEST","CLEAR_VALIDATE_PARAMS","UPDATE_OPERATION_META_VALUE","UPDATE_RESOLVED","UPDATE_RESOLVED_SUBTREE","SET_SCHEMA","toStr","isString2","cleanSpec","parseToJson","specActions","errActions","YAML","safeLoad","level","line","hasWarnedAboutResolveSpecDeprecation","resolveSpec","_ref2$fn","fetch","_ref2$fn$AST","AST","modelPropertyMacro","parameterMacro","requestInterceptor","responseInterceptor","getLineNumberForPath","baseDoc","then","preparedErrors","fullPath","requestBatch","debResolveSubtrees","_debounce2","_asyncToGenerator3","_regenerator2","_callee2","errSelectors","_systemSfn","resolveSubtree","_systemSfn$AST","_systemSgetConfigs","batchResult","_wrap","_callee2","_context2","prev","_ref5","_callee","_ref6","resultMap","_ref2$fn$AST","_system$getConfigs","batchResult","_ref4","_callee$","_context","sent","allErrors","_set2","stop","_x","_x2","_promise2","_t0","updateResolvedSubtreeCache","validateParams","updateEmptyParamInclusion","includeEmptyValue","setResponse","setRequest","setMutatedRequest","logRequest","executeRequest","_ref8","oas3Selectors","_getConfigs2","_getconfigs2","_paramConfigs2","_contextUrl","_urlParse2","operationId","_opId","_server","_selectedServer","namespaceVariables","_serverVariables","_globalVariables","_requestBody","_requestBodyValue","_parsedRequestBody","_buildRequest","_requestInterceptorWrapper","r","_mutatedRequest","_parsedMutatedRequest","startTime","now","execute","duration","catch","_ref9","_ref10","_objectWithoutProperties3","_objectWithoutProperties4","_objectWithoutProperties5","forbiddenField","_objValue","_overArg","_getPrototype","_Uint8Array","_cloneArrayBuffer","arrayBuffer","byteLength","_showDefinitions","_authorize","_logout","_authorizeOauth2","configureAuth","SHOW_AUTH_POPUP","AUTHORIZE","LOGOUT","PRE_AUTHORIZE_OAUTH2","AUTHORIZE_OAUTH2","VALIDATE","CONFIGURE_API","scopeSeparator","preAuthorizeImplicit","_authActions","_auth","_flow","_swaggerURIDirectOauth2","authId","_authorizePassword","_password","_passwordType","_clientId","_clientSecret","_form","_grant_type","_scope","_scopes","_query","_headers","_setClientIdAndSecret","_authorization","_authorizeRequest","_body","_client_id","_client_secret","_form","_authorizeApplication","_authorizeAccessCodeWithFormParams","_redirectUrl","_code","_redirect_uri","_authorizeAccessCodeWithBasicAuthentication","_authSelectors","_dataqsquery","_dataheaders","_additionalQueryStringParams","_parsedUrl","_fetchUrl","_headers","Accept","Content-Type","_X-Requested-With","_response","_parseError","ok","_statusText","errData","_jsonResponse","_error_description","_jsonError","_parseYamlConfig","yaml","_toggle","_UPDATE_CONFIGS","TOGGLE_CONFIGS","_configName","_configValue","_loaded","_setSelectedServer","_setRequestBodyValue","_setActiveExamplesMember","_setRequestContentMember","_setResponseContentMember","_setServerVariableValue","UPDATE_SELECTED_SERVER","UPDATE_REQUEST_BODY_VALUE","UPDATE_ACTIVE_EXAMPLES_MEMBER","UPDATE_REQUEST_CONTENT_TYPE","UPDATE_RESPONSE_CONTENT_TYPE","_UPDATE_SERVER_VARIABLE_VALUE","_selectedServerUrl","_contextType","_contextName","_toObject","_arrayIndexOf","_names","_documentElement","toObject","_ObjectProto","_charCodeAt","_SPECIES","_ID","_invoke","html","_cel","_setTask","_setImmediate","_clearTask","clearImmediate","MessageChannel","Dispatch","counter","queue","ONREADYSTATECHANGE","_defer","_channel","port","_run","_listener","_event","_args","nextTick","_port2","_port1","_onmessage","postMessage","_addEventListener","_importScripts","_removeChild","_setTimeout","_newPromiseCapability","_x","_promiseCapability","_hiddenKeys","_getPropertyNames","_pIE","gPQ","_getOwnPropertyDescriptor","_getTypeOf","_getCloneObject","_quickCloneObject","_output","_executeDeepMerge","_objects","_options","_arrayBehavior","objects","_oindex","_kindex","_existingValueType","_existingValue","_objectAssignDeep","_len","_key","_noMutate","_objectAssignDeepInto","_len2","_key2","_withOptions","g","_eval","_arrayMap","_iteratee","_createCaseFirst","_upperFirst","_baseSlice","_start","_end","_rsAstralRange","_rsComboMarksRange","_rsCombosHalfMarksRange","_rsCombosSymbolsRange","_rsComboRange","_rsVarRange","_rsZWJ","_reHasUnicode","_hasUnicode","_arrayReduce","_accumulator","_initAccum","FUNC_ERROR_TEXT","_resolver","_memoized","_cache","_Cache","_asyncTag","_funcTag","_genTag","_proxyTag","_funcProto","_funcToString","_baseIsEqualDeep","_baseIsEqual","_bitmask","_SetCache","_getCache","_comparePartialFlag","_compareUnorderedFlag","_equalArrays","_equalFunc","_isPartial","_arrLength","_othLength","_stacked","_seen","_arrValue","_othValue","_compare","_othIndex","_baseGetAllKeys","_getAllKeys","_keysFunc","_symbolsFunc","_baseTimes","_isTypedArray","_inherited","_isArr","_isArg","_isBuff","_isType","_skipIndices","_baseIsTypedArray","_nodeIsTypedArray","_transform","_isStrictComparable","_matchesStrictComparable","_srcValue","_NAN","_reTrim","_reIsBadHex","_reIsBinary","_reIsOctal","_free
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AAXiC, WAAAwC, IAAArtC, KAAAyC, OAAA, CAC4qC, IAAArtC, KAAAyC, OAGA, GAAA4qC, KAAA, GACA, SAIAA, OAAA, EACAD, SAAA, EEA, CAAAC, KAAD, MAAA, CACA, SAGA, JIAAA+eB, KAAAA, OEA, YAC, OAIAA, UACA, UACA, OAAKb, SAAA1sE, KAAAotC, MAAAC, KAAE, YACA, OAAAuB, WAAA5sE, KAAAotC, MAAAC, KAAE, aACA, aACA, OAAAwB, YAAA7Es, KAAAotC, MAAAC, KAAE, aACA, OAAAxY, BAAAa9sE, KAAAotC, MAAAC, KAAE, WACA, YACA, cACA, eACA, OAAo0B, aAAAa5sE, KAAAotC, MAAAC, KAAE, QACA, GAAAiB, YAAA, UAAArqE, UAAA, qBAAA AupE, UACAaA, mAABAA, JIAAA58D, cAAAC09D, YAAA, OAAAx5D, OAAArR, UAAAaqE, UAAA, KAAE, SAA Ae, KAAAV, DEAAAV, EAAAX, GACA, JIAAAJ, EAAAXn, EAAAXM, GACAuM, EAAAAV, GAAAuM, GAAEAIn, GAC AkN, EAAEAIn, GAAAEJ, EAAAgO, OAAArR, UAAAw3sE, OAAA, SAAAC, JIAAAAzR, JIAAA7sD, KAAAYC, OAA CA, GAAAA+4D, JIAAAJ, OACA, OAAAAU, WAAA, 6CAEA, QAAAAh7D, EAAA, EAAAIb, EAAAIo7D, JIAAA5p7D, GAAA GAC1B4sE, KAAAHtE, KAAAII, IAAAG, GEA, OAAA, MAGA85, OAAAR, UAAAa5rE, OAAA, SAAAC, SAAAC, IA AAIR, IAAAX7D, KAAAYC, OACA, GAAA+4D, JIAAAJ, OACA, UAAAj, WAAA, 6CAEA, QAAAAh7D, EAAA, EAAAEbA, EAAAIo7D, JIAAA5p7D, GAAA GAC1B4sE, KAAAHtE, KAAAII, IAAAG, GACA4sE, KAAAHtE, KAAAE, EAAAA, EAAAA, EAAAAA, GAEA, OAAAJMA GAA85, OAAAR, UAAAKN, SAAA, SAAAC, WACA, IAIAAM, OAAAzC, KAAAYC, OAAAC, EACA, GAAAC, SAAA, WACA, GAAAmI, UAAAaI, SAAA, SAAAskE, UAAAa3sE, KAAA, EAAAEyC, QACA, OAAAggE, aAAAa7zD, MAAAM 5Y, KAAAa4K, YAGAIk, OAAAR, UAAAa2rE, OAAA, SAAAC, SAAAC, OAAA1/D, GACA, JIAAAoF, OAAAsiB, SAA Ac1nB, GAAA, UAAAAazL, UAAA, 6BACA, GAAAJC, OACAhO, JIAAA0nE, YAAA, YACA, OAAAsfO, OAAAo5D, QAAAlsE, KAAA0nK AAA, GAGAooF, OAAArR, UAAAa4rE, QAAA, SAAAC, UACA, JIAAA/mE, JIAAA, GACA, JIAAAyHI, JIAAAApO, QAAA 2eK, bACA, GAAAtqE, KAAAyC, OAAA, GACA6D, JIAAAgG, KAAA2O, SAAA, SAAAzF, DKA, KAAK, KACID, GAAAS5, KAAAyC, OAAASl, IAIAAzH, KAAA, QAEA, iBAAA, JIAAA, KAGAaM, OAAAR, UAAAAyqE, QAAA, SAAAC, OAAAsp3E, OAAAn6qC, MAAAC, IAIAAcgC, IAIAAcG, SAAAC, SAAAC, IAIAAx6D, OAAAsiB, S AAAs7yB, QAAA, ACA, UAAAAN, UAAA, 6BAGA, GAAAmrC, QAAAviC, UAAA, CACAutC, MAAA, EAEA, GAA AC, MAAAXCtC, UAAA, CACAwiC, JIAAA9qC, cAAAEE, OAAA, EAEA, GAAAnqE, YAAAaizE, UAAA, CASAyEiU, YAA AEA, EEA, GAAAC, UAAAC, UAAAlE, OAAA, QAAC, QAACEO, QAAAaVtE, KAAACyC, OAGA, GAAAsqC, MAAAC, GAAAC, JIAA AnqC, OAAAE, QAAAs6qE, UAAA, GAAC, QAACVtE, KAAAYC, OAAAOA, CACA, UAAA24D, WAAAaS, BAGA, GA AAS5, WAAA, SAAAnG, OAAAC, IAAAC, CACA, SAEA, GAAAgIG, WAAC, QAAA, CACA, SAEA, GAAAnG, OAAAC, IAAAC, CACA, SAGAD, SAAA, EACAC, OAAA, EACAgC, aAAA, EACAC, WAAA, EAEA, GAAAvET, OA AAuC, OAAA, SAEA, JIAAAyoC, EAAAuIC, QAADA, UACA, JIAAAAnB, EAAAa9+B, JIAAA4D, MACA, JIAAAoUB, IAA A5hD, KAAA3L, JIAAA+8B, EAAAAmhC, GAEA, JIAAAqB, SAAAxET, KAAAAm, MAAAnqE, UAAAAC, SACA, JIAAAAE, WAAAlRE, OAAAlUJ, MAAAnmAhmC, KAAA, QAAAJcE, EAAA, EAAAIbE, EAAAa0o7D, MAAAmSP7D, EAAA, CACA C1B, GAAAhOtE, SAAApTe, KAAAqTE, WAAART, GAAA, CAC4qC, EAAAwiC, SAAApTE, GACA+aE, EAAAsB, WA AAARTG, GACA, OAIA, GAAAgqC, EAAAmhc, EAAA, SACA, GAAAl, EAAnhC, EAAA, SACA, UAYA, SAAAOi CqBAAA76D, OAAA5J, JIAAA6iE, WAAAAN, SAAAmc, KAEA, GAAAGd6D, OAAAaQP, SAAA, WAGA, UAAAGqTE, aAAA, UACAN, SAAAM, WACAA, WAAA, OACP, GAAA, WAAA, YACHA, WAAA, gBACG, GAAA, YAAA, YACHA, YAAA, WAEAA, uBACA, GAAAGd9D, MAAAS9D, YAAA, CAEAA, WAAA6B, JIAAA, EAAAa99D, OAAApQ, OAIAE, GAAAgqP, WACAA, EAAA, EAAA, WAAAnJ5D, OAAApQ, OAAAaQP, WAAAAN, SAAAnmC, KAEA, GAAAGd6I, OAAAy3D, 4BACAmC, WAAAAhCU, UAAAx+U, UAAA, YACA, GAAAm3D, JIAAA, CACA, OAAAIqC, WAAAxhC, UAAAX+U, QAAAjW, KAAAa5S, OAAA5J, JIAAA6iE, gBACO, CACP, OAAAn7oC, WAAAhxC, UAAAAmS, YAAArtE, KAAAxS, OAAA5J, JIAAA6iE, aAGA, OAAAnjC, aAAAa91B, QAAA5J, KAAA6iE, WAAAAN, SAAAmC, KAGA, UAAAl1rE, UAAA, wCAGA, SAAA0mC, aAAAhIC, JIAAA8sB, JIAAA6iE, WAAAAN, SAAAmC, KACA, JIAAAEE, UAAA, EACA, JIAAA
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"lodash/upperFirst"\nimport _memoize from "lodash/memoize"\nimport find from "lodash/find"\nimport some from "lodash/some"\nimport eq from "lodash/eq"\nimport { memoizedSampleFromSchema, memoizedCreateXMLExample } from "core/plugins/samples/fn"\nimport win from "./window"\ncssEscape from "css.escape"

const DEFAULT_RESPONSE_KEY = "default"

export const isImmutable = (maybe) => Im.Iterable.isIterable(maybe)

export function isJSONObject (str) {
  try {
    var o = JSON.parse(str)

    // Handle non-exception-throwing cases:
    if (o && typeof o === "object") {
      return o
    }
  }
  catch (e) {
    // do nothing
  }

  return false
}

export function objectify (thing) {
  if(!isObject(thing))
    return {}
  if(isImmutable(thing))
    return thing.toJS()
  return thing
}

export function arrayify (thing) {
  if(!thing)
    return []

  if(thing.toArray)
    return thing.toArray()

  return normalizeArray(thing)
}

export function fromJSOrdered (js) {
  if(isImmutable(js))
    return js // Can't do much here
  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)
}

export function 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
}

export function normalizeArray(arr) {
  if(Array.isArray(arr))
    return arr
  return [arr]
}

export function isFn(fn) {
  return typeof fn === "function"
}

export function isObject(obj) {
  return !!obj && typeof obj === "object"
}

export function isFunc(thing) {
  return typeof(thing) === "function"
}

export function isArray(thing) {
  return Array.isArray(thing)
}

export const memoize = _memoize

export function objMap(obj, fn) {
  return Object.keys(obj).reduce((newObj, key) => {
    newObj[key] = fn(obj[key], key)
    return newObj
  }, {})
}

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
  }, {})
}

export function systemThunkMiddleware(getSystem) {
  return ({ dispatch, getState }) => { // eslint-disable-line no-unused-vars
    return next => action => {
      if (typeof action === "function") {
        return action(getSystem())
      }

      return next(action)
    }
  }
}

export function 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 an array of keys, or a single key
 * @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(Array.isArray(keys) ? keys : [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, // current position
        next = text[0], // next character
        prev2 = text[1], // previous character
        prev1 = text[2], // the one before previous
        token = // current token content
        el.innerHTML = "", // (and cleaning the node)
        oper = 0, // current token type
        op = 1, // current character
        prev = 2, // the one before previous
        innerHTML = "," // (not whitespace)

  if (!el) return ""
  if (el.textContent.length > MAX_LENGTH) { return el.textContent }
  var reset = function(el) {
    var text = el.textContent, pos = 0,
    currentPos = next = text[0], nextCharacter = text[1],
    currentCharacter = text[2], prev2 = text[3]; // the one before previous
    the one before previous token = // current token content
    el.innerHTML = "", // (and cleaning the node)
    currentTokenType = 0, // 0: anything else (whitespaces / newlines)
    operatorOrBrace = 2; // 2: closing braces (after which '/') is division not regex
    3: (key)word
    4: regex
    5: string starting with \// 6: string starting with \\n    7: xml comment <!-- -->
    8: multiline comment /* */
    9: single-line comment starting with two slashes //
    10: single-line comment starting with hash #
    11: tokenType = 0, // kept to determine between regex and division
    12: lastTokenType = 1 // flag
    13: if token is multi-character
      multichar = 0, // node
      node
    14: // running through characters and
    15: highlighting while (prev2 = prev1, \n      // escaping if needed (with except for comments)
    16: // previous

let filename = (\[^;\]*);\?filename=(\[^;\]*);?/i

let responseFilename

patterns.some(regex => {
  responseFilename = regex.exec(value)
  return responseFilename !== null
})

if (responseFilename !== null && responseFilename.length > 1) {
  let try to decodeURIComponent(responseFilename[1])
}

catch(e) {
  let console.error(e)
}

return null

} // PascalCase

let upperFirst(camelCase(str))

return uppercase(str)

// Remove the ext of a filename, and PascalCase it

export function PascalCaseFilename(filename) {
  return pascalCase(filename.replace(/\.[^./\]*$/, ""))
}

// Check if .../ - new props

if (immutable, use .is$/a/ - if in explicit objectList, then compare using _eq$/a/ - else use ===

export const propChecker = (props, nextProps, objectList=[], ignoreList=[] => {

})

// NOT going to compare objects if (typeof a === 'object' & & typeof b === 'object' &)

objectList.some(objectPropName => ![eq(props[objectPropName], nextProps[objectPropName])])

// Check if ...

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 (!"true" || 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"
  }
}

export const validateMaxLength = (val, max) => {
  if (val.length > max) {
    return "Value must be less than MaxLength"
  }
}

export const validateMinLength = (val, min) => {
  if (val.length < min) {
    return "Value must be greater than MinLength"
  }
}

export const validatePattern = (val, rxPattern) => {
  var patt = new RegExp(rxPattern)
  if (!patt.test(val)) {
    return "Value must follow pattern " + rxPattern
  }
}

export const validateParam = (param, value, { isOAS3 = false, bypassRequiredCheck = false } = { }) => {

  let errors = []

  let required = param.get("required")

  let paramDetails = isOAS3 ? param.get("schema") : param

  let maximum = paramDetails.get("maximum")
  let minimum = paramDetails.get("minimum")
  let type = paramDetails.get("type")
  let format = paramDetails.get("format")
  let maxLength = paramDetails.get("maxLength")
  let minLength = paramDetails.get("minLength")
  let pattern = paramDetails.get("pattern")

  if (type) {
    let strict = true
    if (param.get("required")) {
      strict = false
    }

    if (type & & strict) {
      let stringCheck = type === "string" & & value
      let arrayCheck = type === "array" & & Array.isArray(value) & & value.length
      let listCheck = type === "array" & & Im.List.isList(value) & & value.length
      let fileCheck = type === "file" & & value instanceof win.File
      let booleanCheck = type === "boolean" & & value
      let numberCheck = type === "number" & & value
      let integerCheck = type === "integer" & & value
      let oas3ObjectCheck = false & if/false & isOAS3 & & type === "object" & if(typeof value === "object") {
        oas3ObjectCheck = true
      }
    }
  }

  return errors.push("Parameter string value must be valid JSON")
}

export const validateExternalCopy = (value) => {
  if (value) {
    return value
  }
}

export const validateCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateContext = (value, context, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateField = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateObject = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateArray = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateList = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateMap = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateAnyCheck = (checkFunction) => {
  if (checkFunction) {
    return checkFunction
  }
}

export const validateAllChecks = (checkFunction1, checkFunction2, checkFunction3) => {
  if (checkFunction1 & & checkFunction2 & & checkFunction3) {
    return true
  }
}

export const validateAction = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateFunction = (value, checkFunction) => {
  if (checkFunction) {
    return checkFunction(value)
  }
}

export const validateProperty = (value, checkFunction) => {
  if (checkFunction) {
    return checkFunction(value)
  }
}

export const validateContextCheck = (value, context, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateObjectCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateArrayCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateListCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateMapCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateAnyCheck = (checkFunction) => {
  if (checkFunction) {
    return checkFunction
  }
}

export const validateAllChecks = (checkFunction1, checkFunction2, checkFunction3) => {
  if (checkFunction1 & & checkFunction2 & & checkFunction3) {
    return true
  }
}

export const validateAction = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateFunction = (value, checkFunction) => {
  if (checkFunction) {
    return checkFunction(value)
  }
}

export const validateProperty = (value, checkFunction) => {
  if (checkFunction) {
    return checkFunction(value)
  }
}

export const validateContextCheck = (value, context, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateObjectCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateArrayCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateListCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateMapCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateAnyCheck = (checkFunction) => {
  if (checkFunction) {
    return checkFunction
  }
}

export const validateAllChecks = (checkFunction1, checkFunction2, checkFunction3) => {
  if (checkFunction1 & & checkFunction2 & & checkFunction3) {
    return true
  }
}

export const validateAction = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateFunction = (value, checkFunction) => {
  if (checkFunction) {
    return checkFunction(value)
  }
}

export const validateProperty = (value, checkFunction) => {
  if (checkFunction) {
    return checkFunction(value)
  }
}

export const validateContextCheck = (value, context, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateObjectCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateArrayCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateListCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateMapCheck = (value, checkFunction) => {
  if (value) {
    return checkFunction(value)
  }
}

export const validateAnyCheck = (checkFunction) => {
  if (checkFunction) {
    return checkFunction
  }
}

export const validateAllChecks = (checkFunction1, checkFunction2, checkFunction3) => {
  if (checkFunction1 & & checkFunction2 & & checkFunction3) {
    return true
  }
}
&& !passedAnyCheck && !bypassRequiredCheck ) {
\n  if (pattern) { let err = validatePattern(value, pattern) if (err) errors.push(err) \n  } \n  if (maxLength || maxLength === 0) { let err = validateMaxLength(value, maxLength) if (err) errors.push(err) \n  } \n  if (minLength) { let err = validateMinLength(value, minLength) if (err) errors.push(err) \n  } \n  if (maximum || maximum === 0) { let err = validateMaximum(value, maximum) \n  } \n  if (minimum || minimum === 0) { \n    let err = validateMinimum(value, minimum) if (err) errors.push(err) \n  } \n  if (errors.push(err) \n  } else if (type === "boolean") { let err = validateBoolean(value) if (err) return errors.push(err) \n  } \n  else if (type === "number") { let err = validateNumber(value) if (err) return errors.push(err) \n  } \n  else if (type === "integer") { let err = validateInteger(value) if (err) return errors.push(err) \n  } \n  else if (type === "string") { let err = validateString(value) \n  } \n  if (type === "array") { let err = validateArray(value) \n  } \n  if (type === "object") { \n    let err = validateObject(value) \n  } \n  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) \n  }
  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) => {
  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) \n  }
}

export function sanitizeUrl(url) {
  if(typeof url !== "string" || url === "") {
    return ""
  }
  return braintreeSanitizeUrl(url)
}

export function getAcceptControllingResponse(responses) { if(!Im.OrderedMap.isOrderedMap(responses)) { return null } \n
  if (Im.OrderedMap.keys(responses).size) { return responses.find((res, k) => { return k.startsWith("2") && Object.keys(res.get("content") || {}).length > 0 } \n  } \n
  const defaultResponseMediaTypes = (defaultResponse.get("content") || Im.OrderedMap()).keySeq().toJS()

  return defaultResponseMediaTypes = (defaultResponse.get("content") || Im.OrderedMap()).keySeq().toJS() const defaultResponseMediaTypes = (defaultResponse.get("content") || Im.OrderedMap()).keySeq().toJS() const
Open Source Used In MSX SD-WAN Service Pack 4.0.0

```
use strict;

exports.__esModule = true;

var _isIterable2 = require("../core-js/is-iterable");

var _isIterable3 = _interopRequireDefault(_isIterable2);

var _getIterator2 = require("../core-js/get-iterator");

var _getIterator3 = _interopRequireDefault(_getIterator2);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : {default: obj}; }

exports.default = function () {
  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 (!_n && _i['return']) _i['return']();
      } finally {
        if (_d)
          throw _e;
      }
    }
    return _arr;
  }

  return function (arr, i) {
    if (Array.isArray(arr)) {
      return arr;
    } else if ((0, _isIterable3.default)(Object(arr))) {
      return sliceIterator(arr, i);
    } else {
      throw new TypeError("Invalid attempt to destructure non-iterable instance");
    }
  };

  function _interopRequireDefault(obj) {
    return obj && obj.__esModule ? obj : {default: obj};
  }

  exports.exports.default = function () {
    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 (!(_n && _i['return'])) _i['return']();
        } finally {
          if (_d)
            throw _e;
        }
      }
    }
    return function (arr, i) {
      if (Array.isArray(arr)) {
        return arr;
      } else if ((0, _interopRequireDefault)(Object(arr))) {
        return sliceIterator(arr, i);
      } else {
        throw new TypeError("Invalid attempt to destructure non-iterable instance");
      }
    };
  }

  exports.exports = sliceIterator

  module.exports = sliceIterator

  return sliceIterator
```
Open Source Used In MSX SD-WAN Service Pack 4.0.0
function (a, b, c) {
  return fn.call(that, a, b, c);
}

return function /* ...args */) {
  return fn.apply(that, arguments);
};

//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_ctx.js
// module id = 32
// module chunks = 0

module.exports = { "default": require("core-js/library/fn/json/stringify"), __esModule: true };


//////////////////
// WEBPACK FOOTER
// ./node_modules/babel-runtime/core-js/json/stringify.js
// module id = 33
// 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 = 34

// 7.2.1 RequireObjectCoercible(argument)
module.exports = function (it) {
  if (it == undefined) throw TypeError("Can't call method on "+ it);
  return it;
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/isObjectLike.js

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;
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_hide.js

var isObject = require('./_is-object');
module.exports = function (it) {
  if (!isObject(it)) throw TypeError(it + ' is not an object!');
  return it;
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_an-object.js

var core = module.exports = { version: '2.5.5' };
if (typeof __e == 'number') __e = core; // eslint-disable-line no-undef


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_core.js

var baseToString =...
require('./_baseToString');

/**
 * Converts `value` to a string. An empty string is returned for `null` & `undefined` values. The sign of `-0` is preserved.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to convert.
 * @returns {string} Returns the converted string.
 */
function toString(value) {
  return value == null ? '' : baseToString(value);
}

module.exports = toString;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/toString.js
// module id = 45
// module chunks = 0
var Symbol = require('./_Symbol'), getRawTag = require('./_getRawTag'), objectToString = require('./_objectToString');

/** `Object#toString` result references. */
var nullTag = '[object Null]', undefinedTag = '[object Undefined]';

/** Built-in value references. */
var symToStringTag = Symbol ? Symbol.toStringTag : undefined;

/**
 * The base implementation of `getTag` without fallbacks for buggy environments.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to query.
 * @returns {string} Returns the `toStringTag`. The key of the method to get.
 */
function baseGetTag(value) {
  if (value == null) {
    return value === undefined ? undefinedTag : nullTag;
  }
  return (symToStringTag && symToStringTag in Object(value)) ? getRawTag(value) : objectToString(value);
}

module.exports = baseGetTag;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseGetTag.js
// module id = 46
// module chunks = 0
var baseIsNative = require('./_baseIsNative'), getValue = require('./_getValue');

/**
 * Gets the native function at `key` of `object`.
 */
function getNative(object, key) {
  var value = getValue(object, key);
  return baseIsNative(value) ? value : undefined;
}

module.exports = getNative;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_getNative.js
// module id = 47
// module chunks = 0
module.exports = {};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_iterators.js
// module id = 48
// module chunks = 0
// to indexed object, toObject with fallback for non-array-like ES3 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 = 49
// 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
 // 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 };
  point = $at(O, index);
  this._i += point.length;
  return {
    value: point, done: false
  };
});


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/es6.string.iterator.js
// module id = 51
// 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);
};

var module.exports = function (O, key, val, safe) {
  var isFunction = typeof val == 'function';
  if (isFunction) {
    var has = hasOwnProperty ? 'hasOwnProperty' : 'propertyIsEnumerable';
    if (val[has](name)) return;
    delete O[key];
  }
  hide(O, key, val, safe);
};

```
js/library/modules/_for-of.js

// module id = 75
// module chunks = 0
// // YAML error class.
http://stackoverflow.com/questions/8458984
//
'use strict';

function YAMLException(reason, mark) {
  // Super constructor
  Error.call(this);
  this.name = 'YAMLException';
  this.reason = reason;
  this.mark = mark;
  this.message = (this.reason || '(unknown reason)') + (this.mark ? ' ' + this.mark.toString() : '');
  // Include stack trace in error object
  if (Error.captureStackTrace) {
    // Chrome and NodeJS
    Error.captureStackTrace(this, this.constructor);
  } else { // FF, IE 10+ and Safari 6+. Fallback for others
    this.stack = (new Error()).stack || '';
  }
}

// Inherit from Error
YAMLException.prototype = YAMLException.prototype.constructor =
YAMLException;

YAMLException.prototype.toString = function toString(compact) {
  var result = this.name + ': ';
  result += this.reason || '(unknown reason)';
  if (!compact && this.mark) {
    result += ' ' + this.mark.toString();
  }
  return result;
};

module.exports = YAMLException;


____________________
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/yaml-exception.js
// module id = 76
// module chunks = 0
// // JY-SAML's default schema for `safeLoad` function.
// It is not described in the YAML specification.
// This schema is based on standard YAML's Core schema and includes most of
// extra types described at YAML tag repository. (http://yaml.org/type/)


'use strict';


var Schema = require('../schema');


module.exports = new Schema({
  include: [
    require('./core')
  ],
  implicit: [
    require('../type/timestamp'),
    require('../type/merge')
  ],
  explicit: [
    require('../type/binary'),
    require('../type/omap'),
    require('../type/pairs'),
    require('../type/set')
  ]
});


____________________
// WEBPACK FOOTER
// ./node_modules/lodash/_copyObject.js
// module id = 78
// module chunks = 0
// module.exports = require("classnames");


____________________
// WEBPACK FOOTER
// external "classnames"
// module id = 79
// module chunks = 0
// module.exports = { "default": require("core-js/library/fn/get-iterator"), __esModule: true }


____________________
// WEBPACK FOOTER
// ./node_modules/babel-runtime/core-js/get-iterator.js
// module id = 80
// module chunks = 0
// module.exports = true;


____________________
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_library.js
// module id = 81
// module chunks = 0
// // 19.1.2.2 / 15.2.3.5 Object.create(O [ , Properties])
var assignValue = require('./_assignValue'),
    baseAssignValue = require('./_baseAssignValue');

/**
 * Copies properties of `source` to `object`.
 * @private
 * @param {Object} source The object to copy properties from.
 * @param {Array} props The property identifiers to copy.
 * @param {Object} [object={}] The object to copy properties to.
 * @param {Function} [customizer] The function to customize copied values.
 * @returns {Object} Returns `object`.
 */
function copyObject(source, props, object, customizer) {
  var isNew = !object;
  object || (object = {});

  var index = -1,
      length = props.length;

  while (++index < length) {
    var key = props[index];

    var newValue = customizer
      ? customizer(object[key], source[key], key, object, source)
      : undefined;

    if (newValue === undefined) {
      newValue = source[key];
    }
    if (isNew) {
      baseAssignValue(object, key, newValue);
    } else {
      assignValue(object, key, newValue);
    }
  }
  return object;
}

module.exports = copyObject;
```

---

Open Source Used In MSX SD-WAN Service Pack 4.0.0  21344
RegExp.prototype[@search](string) n : function (string) { return rxfn.call(string, this); }\n});\n\n// WEBPACK FOOTER\n\nWebpack
if(newVal.get("$$ref")) {
  // resolver artifacts indicated that this key was directly resolved
  return newVal;
}

if(!newVal.get("$$ref")) {
  // resolver artifacts indicated that this key was directly resolved
  // so we should
  return OrderedMap().mergeWith(mergeFn, newVal);
}

spec.get("resolvedSubtrees").forEach((path) => {
  if(path) {
    if(path.forEach) {
      path.forEach((pathName) => {
        if(pathName) {
          return OrderedMap().mergeWith(
            mergerFn,
            oldVal,
            newVal
          )
        }
      })
    }
  }
}

return OrderedMap().mergeWith(
  mergerFn,
  oldVal,
  newVal
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return OrderedMap().mergeWith(
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  oldVal,
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)
}

returnOrderedMap().mergeWith(
  mergerFn,
  oldVal,
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
if(List.isList(parameters)) {\n return parameters.some( p => Map.isMap(p) && p.get(\"type\") === typeValue )\n
}\n}\n\n// Get the consumes/produces value that the user selected\nexport function contentTypeValues(state,
pathMethod) {\n pathMethod = pathMethod || []\n let op = specJsonWithResolvedSubtrees(state).getIn([\"paths\",
...pathMethod], fromJS({}))\n let meta = state.getIn([\"meta\", \"paths\", ...pathMethod], fromJS({}))\n let
producesValue = currentProducesFor(state, pathMethod)\n\n const parameters = op.get(\"parameters\") || new
List()\n\n const requestContentType = (\n meta.get(\"consumes_value\") ? meta.get(\"consumes_value\")\n
:
parametersIncludeType(parameters, \"file\") ? \"multipart/form-data\"\n
: parametersIncludeType(parameters,

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// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_iobject.js
// module id = 105
// module chunks = 0


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
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/schema/default_full.js
// module id = 104
// module chunks = 0
object to query.\n * @returns {Array} Returns the array of symbols.\n */\n
var getSymbols = !nativeGetSymbols ? stubArray : function(object) {\n if (object == null) {\n return [];\n }\n object = Object(object);\n return arrayFilter(nativeGetSymbols(object), function(symbol) {\n return propertyIsEnumerable.call(object, symbol);\n });\n}

module.exports = getSymbols;

/* WEBPACK FOOTER */
// module.id = 133\n// module chunks = 0\n"var baseIsArguments = require(\'./_baseIsArguments\');\n isObjectLike = require(\'../ObjectLike\');\n*/** Used for built-in method references. */\nvar objectProto = Object.prototype;\n** Used to check objects for own properties. */\nvar hasOwnProperty = objectProto.hasOwnProperty;

/**
 * Returns the array of symbols.\n */
var getSymbols = !nativeGetSymbols ? stubArray : function(object) {\n if (object == null) {\n return [];\n }\n object = Object(object);\n return arrayFilter(nativeGetSymbols(object), function(symbol) {\n return propertyIsEnumerable.call(object, symbol);\n });\n}

module.exports = getSymbols;

/* WEBPACK FOOTER */
// module.id = 134\n// module chunks = 0\n"var root = require('./_root'),\n stubFalse = require('./stubFalse');\n
/** Detect free variable `exports`. */\nvar freeExports = typeof exports == 'object' && exports && !exports.nodeType && exports;

/** Detect free variable `module`. */\nvar freeModule = freeExports && typeof module == 'object' && module && !module.nodeType && module;

/** Detect the popular CommonJS extension `module.exports`. */\nvar moduleExports = freeModule && freeModule.exports === freeExports;

/**
 * Checks if `value` is a buffer.
 *
 * @static
 * @memberOf _
 * @since 4.3.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a buffer, else `false`.
 * @example
 *
 * _.isBuffer(new Buffer(2));
 * // => true
 *
 * _.isBuffer(new Uint8Array(2));
 * // => false
 */\n
var isBuffer = nativeIsBuffer || stubFalse;

module.exports = isBuffer;

/* WEBPACK FOOTER */
// (webpack)/buildin/module.js
// module.id = 135
// module chunks = 0
"/**
 * The base implementation of `_.unary` without support for storing metadata.
 *
 * @private
 * @param {Function} func The function to cap arguments for.
 * @returns {Function} Returns the new capped function.
 */\nfunction baseUnary(func) {\n return function(value) {\n return func(value);\n };
}

module.exports = baseUnary;

/* WEBPACK FOOTER */
// ./node_modules/lodash/_baseUnary.js
// module.id = 136
// module chunks = 0
"/**
 * Used as references for various `Number` constants. */\n
var MAX_SAFE_INTEGER = 9007199254740991;

/**
 * Checks if `value` is a valid array-like length.\n */\n
function isLength(value) {\n return typeof value == 'number' &&
    value > -1 && value % 1 == 0 && value <= MAX_SAFE_INTEGER;
}

module.exports = isLength;
freeGlobal = require('../freeGlobal');

/** Detect free variable 'exports'. */
var freeExports = typeof exports == 'object' && exports && exports.nodeType && exports; /* Detect free variable 'module'. */
var freeModule = exports && typeof module == 'object' && module && module.nodeType && module; /* Detect the popular CommonJS extension 'module.exports'. */
var moduleExports = freeModule && freeModule.exports == exports; /* Detect free variable 'process' from Node.js. */
var freeProcess = moduleExports && freeGlobal.process; /* Used to access faster Node.js helpers. */
var nodeUtil = (function() { try { // Use 'util.types' for Node.js 10+.
  var types = freeModule && freeModule.require && freeModule.require('util').types;
  if (types) { return types; } // Legacy 'process.binding('util')' for Node.js < 10.
  return freeProcess && freeProcess.binding && freeProcess.binding('util'); }
}());

module.exports = nodeUtil;

/** Used for built-in method references. */
var objectProto = Object.prototype;

/**
 * Checks if `value` is likely a prototype object.
 *
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a prototype, else `false`.
 */
function isPrototype(value) {
  var Ctor = value && value.constructor,
      proto = (typeof Ctor == 'function' && Ctor.prototype) || objectProto;

  return value === proto;
}

module.exports = isPrototype;

/**
 * Gets the value at `path` of `object`. If the resolved value is `undefined`, the `defaultValue` is returned in its place.
 *
 * @static
 * @memberOf _
 * @since 3.7.0
 * @category Object
 * @param {Object} object The object to query.
 * @param {Array|string} path The path of the property to get.
 * @param {*} [defaultValue] The value returned for `undefined` resolved values.
 * @returns {*} Returns the resolved value.
 */
function get(object, path, defaultValue) {
  var result = object == null ? undefined : baseGet(object, path);
  return result === undefined ? defaultValue : result;
}

module.exports = get;

/**
 * The base implementation of `_.get` without support for default values.
 *
 * @private
 * @param {Object} object The object to query keys on.
 * @param {Array|string} path The path of the property to get.
 * @returns {*} Returns the resolved value.
 */
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;
}

module.exports = baseGet;

/**
 * The base implementation of `_.isKey` without support for deep keys
 * or object paths.
 *
 * @private
 * @param {*} value The value to check.
 * @param {Object} [object] The object to query keys on.
 * @returns {boolean} Returns `true` if `value` is a key, 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 reIsPlainProp.test(value) || !reIsDeepProp.test(value) ||
    (object != null && value in Object(object));
}

module.exports = isKey;

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-2c963f66afa6",
  "string_hostname": () => "example.com",
  "string_ipv4": () => "198.51.100.42",
  "string_ipv6": () => "2001:0db8:5b96:0000:0000:42:6f8e17:642a",
  "number": () => 0,
  "null": () => null,
let enumAttrVal = Array.isArray(props[propName].enum) && props[propName].enum[0] || attrExample = props[propName].example
let attrDefault = props[propName].default
let attrExample = example[propName] !== undefined && &
attrDefault && example[propName] || attrDefault !== undefined && &
attrDefault || enumAttrVal || primitive(props[propName].enum) || example[propName].concat(t) || else {' props[propName].example = example[propName].example = example[propName].example
let t = sampleXmlFromSchema(props[propName]).if (Array.isArray(t)) { res[displayName].concat(t) || else { res[displayName].push(t) || if (additionalProperties === true) {' res[displayName].push({' anything can be here"}) || else if (additionalProperties) { res[displayName].push({' primitive(additionalProperties) || ' || if (_attr) { res[displayName].push(_attr) || return res || if (example !== undefined) {' value = example
} else if (defaultValue !== undefined) {' value = defaultValue
} else if (Array.isArray(enumValue)) {' value = enumValue[0] || else { return defaultValue === undefined {' value = primitive(schema)
}
}
else { return value
}

return {
    type: UPDATE_SPEC,
    payload: spec
}
}

return {
    type: UPDATE_RESOLVED,
    payload: spec
}
}

return {
    type: UPDATE_URL,
    payload: url
}
}

return {
    type: UPDATE_JSON,
    payload: json
}

return {
    type: UPDATE_OPERATION_META_VALUE,
    payload: spec
}

return {
    type: UPDATE_RESOLVED_SUBTREE,
    payload: spec
}

pet: spec

export const CREATE_SCHEMA = "schema_create_schema"
export const UPDATE_SCHEMA = "schema_update_schema"
export const DELETE_SCHEMA = "schema_delete_schema"
export const CLEAR_SCHEMA = "schema_clear_schema"
export const CREATE_OPERATION_META = "operation_create_operation_meta"
export const UPDATE_OPERATION_META = "operation_update_operation_meta"
export const DELETE_OPERATION_META = "operation_delete_operation_meta"
export const CLEAR_OPERATION_META = "operation_clear_operation_meta"
export const CREATE_PARAMETER = "parameter_create_parameter"
export const UPDATE_PARAMETER = "parameter_update_parameter"
export const DELETE_PARAMETER = "parameter_delete_parameter"
export const CLEAR_PARAMETER = "parameter_clear_parameter"
export const CREATE_VALIDATION_SCHEMA = "validation_schema_create_validation_schema"
export const UPDATE_VALIDATION_SCHEMA = "validation_schema_update_validation_schema"
export const DELETE_VALIDATION_SCHEMA = "validation_schema_delete_validation_schema"
export const CLEAR_VALIDATION_SCHEMA = "validation_schema_clear_validation_schema"
export const CREATE_OPERATION = "operation_create_operation"
export const UPDATE_OPERATION = "operation_update_operation"
export const DELETE_OPERATION = "operation_delete_operation"
export const CLEAR_OPERATION = "operation_clear_operation"
export const CREATE_OPERATION_RESPONSE = "operation_response_create_operation_response"
export const UPDATE_OPERATION_RESPONSE = "operation_response_update_operation_response"
export const DELETE_OPERATION_RESPONSE = "operation_response_delete_operation_response"
export const CLEAR_OPERATION_RESPONSE = "operation_response_clear_operation_response"
export const CREATE_OPERATION_REQUEST = "operation_request_create_operation_request"
export const UPDATE_OPERATION_REQUEST = "operation_request_update_operation_request"
export const DELETE_OPERATION_REQUEST = "operation_request_delete_operation_request"
export const CLEAR_OPERATION_REQUEST = "operation_request_clear_operation_request"
export const CREATE_OPERATION_CONFIG = "operation_config_create_operation_config"
export const UPDATE_OPERATION_CONFIG = "operation_config_update_operation_config"
export const DELETE_OPERATION_CONFIG = "operation_config_delete_operation_config"
export const CLEAR_OPERATION_CONFIG = "operation_config_clear_operation_config"
export const CREATE_OPERATION_CONFIG_RESPONSE = "operation_config_response_create_operation_config_response"
export const UPDATE_OPERATION_CONFIG_RESPONSE = "operation_config_response_update_operation_config_response"
export const DELETE_OPERATION_CONFIG_RESPONSE = "operation_config_response_delete_operation_config_response"
export const CLEAR_OPERATION_CONFIG_RESPONSE = "operation_config_response_clear_operation_config_response"
export const CREATE_OPERATION_CONFIG_REQUEST = "operation_config_request_create_operation_config_request"
export const UPDATE_OPERATION_CONFIG_REQUEST = "operation_config_request_update_operation_config_request"
export const DELETE_OPERATION_CONFIG_REQUEST = "operation_config_request_delete_operation_config_request"
export const CLEAR_OPERATION_CONFIG_REQUEST = "operation_config_request_clear_operation_config_request"
export const CREATE_OPERATION_CONFIG_REQUEST_RESPONSE = "operation_config_request_response_create_operation_config_request_response"
export const UPDATE_OPERATION_CONFIG_REQUEST_RESPONSE = "operation_config_request_response_update_operation_config_request_response"
export const DELETE_OPERATION_CONFIG_REQUEST_RESPONSE = "operation_config_request_response_delete_operation_config_request_response"
export const CLEAR_OPERATION_CONFIG_REQUEST_RESPONSE = "operation_config_request_response_clear_operation_config_request_response"
export const CREATE_OPERATION_CONFIG_REQUEST_REQUEST = "operation_config_request_request_create_operation_config_request_request"
export const UPDATE_OPERATION_CONFIG_REQUEST_REQUEST = "operation_config_request_request_update_operation_config_request_request"
export const DELETE_OPERATION_CONFIG_REQUEST_REQUEST = "operation_config_request_request_delete_operation_config_request_request"
export const CLEAR_OPERATION_CONFIG_REQUEST_REQUEST = "operation_config_request_request_clear_operation_config_request_request"
export const CREATE_OPERATION_CONFIG_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_response_create_operation_config_request_request_response"
export const UPDATE_OPERATION_CONFIG_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_response_update_operation_config_request_request_response"
export const DELETE_OPERATION_CONFIG_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_response_delete_operation_config_request_request_response"
export const CLEAR_OPERATION_CONFIG_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_response_clear_operation_config_request_request_response"
export const CREATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_create_operation_config_request_request_request"
export const UPDATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_update_operation_config_request_request_request"
export const DELETE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_delete_operation_config_request_request_request"
export const CLEAR_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_clear_operation_config_request_request_request"
export const CREATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_response_create_operation_config_request_request_request_response"
export const UPDATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_response_update_operation_config_request_request_request_response"
export const DELETE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_response_delete_operation_config_request_request_request_response"
export const CLEAR_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_response_clear_operation_config_request_request_request_response"
export const CREATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_request_create_operation_config_request_request_request_request"
export const UPDATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_request_update_operation_config_request_request_request_request"
export const DELETE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_request_delete_operation_config_request_request_request_request"
export const CLEAR_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_request_clear_operation_config_request_request_request_request"
export const CREATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_request_response_create_operation_config_request_request_request_request_response"
export const UPDATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_request_response_update_operation_config_request_request_request_request_response"
export const DELETE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_request_response_delete_operation_config_request_request_request_request_response"
export const CLEAR_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_request_response_clear_operation_config_request_request_request_request_response"
export const CREATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_request_request_create_operation_config_request_request_request_request_request"
export const UPDATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_request_request_update_operation_config_request_request_request_request_request"
export const DELETE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_request_request_delete_operation_config_request_request_request_request_request"
export const CLEAR_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_REQUEST = "operation_config_request_request_request_request_request_clear_operation_config_request_request_request_request_request"
export const CREATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_request_request_response_create_operation_config_request_request_request_request_request_response"
export const UPDATE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_request_request_response_update_operation_config_request_request_request_request_request_response"
export const DELETE_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_REQUEST_RESPONSE = "operation_config_request_request_request_request_request_response_delete_operation_config_request_request_request_request_request_response"
export const CLEAR_OPERATION_CONFIG_REQUEST_REQUEST_REQUEST_REQUEST_REQUEST_response = "operation_config_request_request_request_request_request_response_clear_operation_config_request_request_request_request_request_response"
payload: json

export const parseToJson = (str) => {
  let {
    specStr } = specSelectors
  let json = null
  try {
    str = str || specStr()
    errActions.clear({
      source: "parser"  
    })
    try {
      json = YAML.safeLoad(str)
    } catch(e) {
      console.error(" // TODO: push error to state");
    }
  } catch(e) {
    console.error(e)
    return errActions.newSpecErr({
      source: "parser",
      level: "error",
      message: e.reason,
      line: e.mark &&
      e.mark.line ? e.mark.line + 1 : undefined
    })
  }
  if(json && typeof json === "object") {
    return 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
  } = getConfigs()

  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((
    async () => {
      const system = requestBatch.system // Just a reference to the 'latest' system
      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 = err.type = "thrown"
              err.source = "resolver"
              Object.defineProperty(err, "message", { enumerable: true, value: err.message
            })
            return err
          })
            errActions.newThrownErrBatch(preparedErrors)
          }

          set(resultMap,
            path, spec)
          set(specWithCurrentSubtrees, path, spec)

          return {
            resultMap,
            specWithCurrentSubtrees
          }
        })
      }
    })
  }

  specActions.updateResolved(spec)
}, 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("@@"))
  if(!isPathAlreadyBatched) {
    // this is the resolverSubtree method, doing nothing.
    return
  }

  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 = err.type = "thrown"
          err.source = "resolver"
          Object.defineProperty(err, "message", { enumerable: true, value: err.message
          })
          return err
        })
          errActions.newThrownErrBatch(preparedErrors)
      }

      set(resultMap,
        path, spec)
      set(specWithCurrentSubtrees, path, spec)

      return {
        resultMap,
        specWithCurrentSubtrees
      }
    )
  }
}

indexOf(path.join("@@")) > -1 \n  if(isPathAlreadyBatched) {\n    return \n  }\n
  requestBatch.push(path)\n  debResolveSubtrees()\n}

export function changeParam( path, paramName, paramIn, value, isXml )\n  => {\n    type: UPDATE_PARAM,\n    payload:{ path, value, paramName, paramIn, isXml }\n  }\n
export function changeParamByIdentity( pathMethod, param, value, isXml )\n  => {\n    type: UPDATE_PARAM,\n    payload:{ path: pathMethod, param, value, isXml }\n  }

export const updateResolvedSubtree = (path, value) => {
  return {
    type: UPDATE_RESOLVED_SUBTREE,\n    payload:{ path, value, Map(\n      isOAS3 \n    })\n  }
}

export const invalidateResolvedSubtreeCache = () => {
  return {
    type: UPDATE_RESOLVED_SUBTREE,\n    payload:
      Map(\n        isOAS3 \n      )\n  }
}

export const updateEmptyParamInclusion = ( pathMethod, paramName, paramIn, includeEmptyValue ) => {
  return {
    type: UPDATE_EMPTY_PARAM_INCLUSION,\n    payload:{ pathMethod, paramName, paramIn, includeEmptyValue }\n  }
}

export function clearValidateParams( payload ){
  return {
    type: CLEAR_VALIDATE_PARAMS,\n    payload:{ pathMethod: payload }\n  }
}

export function changeConsumesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,\n    payload:{ path, value, key: "consumes_value" }\n  }
}

export function changeProducesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,\n    payload:{ path, value, key: "produces_value" }\n  }
}

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\nexport const logRequest = (req) => {
  return {
    payload: req,
    type: LOG_REQUEST
  }
}

// Actually fire the request via fn.execute\n// (For debugging)
export const executeRequest = (req) =>
  ({fn, specActions, specSelectors, getConfigs, oas3Selectors}) => {
    let { pathName, method, operation } = req
    let { requestInterceptor, responseInterceptor } = getConfigs()

    // if url is relative, parseUrl makes it absolute by inferring from `window.location`
    req.contextUrl = parseUrl(specSelectors.url()).toString()

    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(!paramValue || (paramValue && paramValue.size === 0)) {
              req.parameters[param.get("name")] = ""
            }
          }
        })
    }

    // if the value is falsy or an empty Immutable iterable...\n  if(!paramValue || (paramValue && paramValue.size === 0)) {\n    if(isEmpty(paramValue)) {\n      if(paramValue.size !== 0) {\n        // set it to empty string, so Swagger Client will treat it as an empty but empty\n        param.parameters[param.get("name")].size = 0\n      }\n    }\n  }\n
  return {
    type: REQUEST_TRIGGERED\n  }
}

// This is for debugging, remove this comment if you depend on this action\nexport const logRequest = (req) => {
  return {
    payload: req,
    type: LOG_REQUEST
  }
}

// Actually fire the request via fn.execute\n// (For debugging)
export const executeRequest = (req) =>
  ({fn, specActions, specSelectors, getConfigs, oas3Selectors}) => {
    let { pathName, method, operation } = req
    let { requestInterceptor, responseInterceptor } = getConfigs()

    // if url is relative, parseUrl makes it absolute by inferring from `window.location`
    req.contextUrl = parseUrl(specSelectors.url()).toString()

    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(!paramValue || (paramValue && paramValue.size === 0)) {\n              req.parameters[param.get("name")].size = 0\n            }\n          }
        })
    }

    // if the value is falsy or an empty Immutable iterable...\n  if(!paramValue || (paramValue && paramValue.size === 0)) {\n    if(isEmpty(paramValue)) {\n      if(paramValue.size !== 0) {\n        // set it to empty string, so Swagger Client will treat it as an empty but empty\n        param.parameters[param.get("name")].size = 0\n      }\n    }\n  }\n
  return {
    type: REQUEST_TRIGGERED\n  }
}

// This is for debugging, remove this comment if you depend on this action\nexport const logRequest = (req) => {
  return {
    payload: req,
    type: LOG_REQUEST
  }
}

// Actually fire the request via fn.execute\n// (For debugging)
export const executeRequest = (req) =>
  ({fn, specActions, specSelectors, getConfigs, oas3Selectors}) => {
    let { pathName, method, operation } = req
    let { requestInterceptor, responseInterceptor } = getConfigs()

    // if url is relative, parseUrl makes it absolute by inferring from `window.location`
    req.contextUrl = parseUrl(specSelectors.url()).toString()

    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(!paramValue || (paramValue && paramValue.size === 0)) {\n              req.parameters[param.get("name")].size = 0\n            }\n          }
        })
    }

    // if the value is falsy or an empty Immutable iterable...\n  if(!paramValue || (paramValue && paramValue.size === 0)) {\n    if(isEmpty(paramValue)) {\n      if(paramValue.size !== 0) {\n        // set it to empty string, so Swagger Client will treat it as an empty but empty\n        param.parameters[param.get("name")].size = 0\n      }\n    }\n  }\n
  return {
    type: REQUEST_TRIGGERED\n  }
}
function(r) {
  let mutatedRequest = requestInterceptors.apply(this, [r])
  let parsedMutatedRequest = Object.assign({}, mutatedRequest)
  specActions.setMutatedRequest(parsedMutatedRequest)
  return mutatedRequest
}

specActions.setResponse(spec.pathName, req.method, res) => {
  fn.execute(req)
      return fn.execute(req)
    .then(res => {
      return fn.execute(req)
      res.duration = Date.now() - startTime
    })
      setRequestJsonWithResolvedSubtrees().toJS() specActions.setScheme

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.getParameterValues([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}
  }
}

//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/schema.js
// module id = 150
// module chunks = 0
overArg = require('./_overArg');

/**
 * Creates a clone of `arrayBuffer`.  
 *
 * @returns {ArrayBuffer} Returns the cloned array buffer.
 */
arrayBuffer The array buffer to clone.


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_cloneArrayBuffer.js
// module id = 154
// 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"
export const VALIDATE = "validate"
export const CONFIGURE_AUTH = "configure_auth"

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 }

  // 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 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 function authorizeOauth2(payload) {
  return {
    type: AUTHORIZE_OAUTH2,
    payload: payload
  }
}

export const authorizePassword = ( auth ) => ( { authActions } ) => {
  let { schema, name, username, password, passwordType, clientId, clientSecret } = auth
  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, scopes, name, clientId, clientSecret } = auth
  let headers = {
    Authorization: "Basic " + btoa(clientId + ":" + clientSecret)
  }

  return authActions.authorizeRequest({ body: buildFormData(form), url: schema.get("tokenUrl"), name, headers, query, auth })
}

export const authorizeAccessCodeWithFormParams = ( { auth, redirectUrl } ) => ( { authActions } ) => {
  let { schema, name, clientId, clientSecret } = auth
  let form = {
    grant_type: "authorization_code",
    client_id: clientId,
    client_secret: clientSecret,
    redirect_uri: redirectUrl
  }

  return authActions.authorizeRequest({ body: buildFormData(form), url: schema.get("tokenUrl"), auth })
}

export const authorizeAccessCodeWithBasicAuthentication = ( { auth, redirectUrl } ) => ( { authActions } ) => {
  let { schema, name, clientId, clientSecret } = auth
  let form = {
    grant_type: "authorization_code",
    client_id: clientId,
    redirect_uri: redirectUrl
  }

  return authActions.authorizeRequest({ body: buildFormData(form), url: schema.get("tokenUrl"), auth })
}
data) => ({ fn, getConfigs, authActions, errActions, oas3Selectors, specSelectors, authSelectors }) => {
  let {
    body, query={}, headers={}, name, url, auth = data
  } let { additionalQueryStringsParams } = authSelectors.getConfigs() || {}
  let parsedUrl
  if (specSelectors.isOAS3()) {
    parsedUrl = parseUrl(url, oas3Selectors.selectedServer(), true)
  } else {
    parsedUrl = parseUrl(url, specSelectors.url(), true)
  }
  if (typeof additionalQueryStringsParams === "object") {
    parsedUrl.query = Object.assign({}, parsedUrl.query, additionalQueryStringsParams)
  }
  const fetchUrl = parsedUrl.toString()
  headers = fn.fetch({
    url: fetchUrl,
    method: "post",
    headers: headers,
    query: query,
    body: body,
    requestInterceptor: getConfigs().requestInterceptor,
    responseInterceptor: getConfigs().responseInterceptor
  })
  .then(function (response) {
    let token = JSON.parse(response.data)
    let error = token && (token.error || "")
    let parseError = token && (token.parseError || "")
    if (!response.ok) {
      errActions.newAuthErr({
        authId: name,
        level: "error",
        source: "auth",
        message: response.statusText
      })
      return
    }
    if (error || parseError) {
      errActions.newAuthErr({
        authId: name,
        level: "error",
        source: "auth",
        message: JSON.stringify(token)
      })
      return
    }
    authActions.authorizeOauth2({ auth, token })
  })
  .catch(e => {
    let err = new Error(e)
    let message = err.message
    if (e.response && e.response.data) {
      const errData = e.response.data
      try {
        const jsonResponse = typeof errData === "string" ? JSON.parse(errData) : errData
        if (jsonResponse.error)
          message += `, error: ${jsonResponse.error}`
        if (jsonResponse.error_description)
          message += `, description: ${jsonResponse.error_description}`
      } catch (jsonError) {
        // Ignore
      }
    }
    errActions.newAuthErr({
      authId: name,
      level: "error",
      source: "auth",
      message: message
    })
  })
}

export function configureAuth(payload) {
  return {
    type: CONFIGURE_AUTH,
    payload: payload
  }
}

// WEBPACK FOOTER //
// ./src/core/plugins/auth/actions.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/actions.js

// Actions conform to FSA (flux-standard-actions)
// {type: string,payload: Any|Error, meta: obj, error: bool}

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 function setSelectedServer (selectedServerUrl, namespace) {
  return {
    type: UPDATE_SELECTED_SERVER,
    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 setRequestContentType ({ value, pathMethod }) {
  return {
    type: UPDATE_REQUEST_CONTENT_TYPE,
    payload: { value, pathMethod }
  }
}

export function setResponseContentType ({ value, pathMethod }) {
  return {
    type: UPDATE_RESPONSE_CONTENT_TYPE,
    payload: { value, pathMethod }
  }
}

export function setServerVariableValue ({ value, pathMethod, contextName }) {
  return {
    type: UPDATE_SERVER_VARIABLE_VALUE,
    payload: { value, pathMethod, contextName }
  }
}

export function setServerVariableValue ({ value, pathMethod, contextName }) {
  return {
    type: UPDATE_SERVER_VARIABLE_VALUE,
    payload: { value, pathMethod }
  }
}

export function setExamplesMember ({ name, pathMethod, contextType, contextName }) {
  return {
    type: UPDATE_ACTIVE_EXAMPLES_MEMBER,
    payload: { name, pathMethod, contextType, contextName }
  }
}

export function setRequestContentType ({ value, pathMethod }) {
  return {
    type: UPDATE_REQUEST_CONTENT_TYPE,
    payload: { value, pathMethod }
  }
}

export function setResponseContentType ({ value, pathMethod }) {
  return {
    type: UPDATE_RESPONSE_CONTENT_TYPE,
    payload: { value, pathMethod }
  }
}
this;

if (queue.hasOwnProperty(id)) {
  var fn = queue[id];
  var listener = function (event) {
    fn.call(event.data);
  };

  // Node.js 0.8- only
  if (require('setImmediate')) {
    var fn = function (id) {
      queue[id] = function () {
        // eslint-disable-next-line no-new-func
        invoke(typeof fn == 'function' ? fn : Function(fn), arguments);
      };
      defer(id);
    };
    return counter;
  }

  // Node.js 0.9+ & IE10+ has setImmediate, otherwise:
  if (!setImmediate) {
    var fn = function (id) {
      queue[id] = function () {
        // eslint-disable-next-line no-new-func
        invoke(typeof fn == 'function' ? fn : Function(fn), arguments);
      };
      defer(id);
    };
    return counter;
  }

  // Browser with MessageChannel, includes WebWorkers
  if (MessageChannel) {
    var channel = new MessageChannel();
    channel.port1.onmessage = listener;
    defer = channel.port1.postMessage;
  }

  // Browsers with postMessage, skip WebWorkers
  // IE8 has postMessage, but it's sync & typeof postMessage is 'string' instead of 'function'
  if (global.postMessage && typeof JSON.stringify) {
    defer = function (id) {
      global.postMessage(id + '', '*');
    };
    global.addEventListener('message', listener, false);
  }

  // Rest old browsers
  defer = function (id) {
    setTimeout(ctx(run, id, 1), 0);
  }
}

module.exports = {
  set: setImmediate,
  clear: clearImmediate
};
/*
 * Enumerates the given array and returns a new array, with each of its
 * values cloned (i.e. references broken).
 */
function quickCloneArray(input) {
  return input.map(cloneValue);
}

/*
 * Enumerates the properties of the given object (ignoring the prototype chain)
 * and returns a new object, with each of its values cloned (i.e. references broken).
 * Properties in later objects will always overwrite.
 */
module.exports = function objectAssignDeep(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);
};

/*
 * Allows an options object to be
 * passed in to customise the behaviour of the function.
 */
module.exports.withOptions = function
iteratee(accumulator, array[index], index, array)

```
func(accumulator, array[index], index, array);
```
null || other == null || !(isObjectLike(value) && isObjectLike(other))) {
  return value !== value && other !== other;
}

return baseIsEqualDeep(value, other, bitmask, customizer, basesEqual, stack);

module.exports = baseIsEqual;


------------------
// WEBPACK FOOTER
// ./node_modules/lodash/_baseIsEqual.js
// module id = 197
// module chunks = 0";"var SetCache = require('./_SetCache'),
arraySome = require('./_arraySome'),
cacheHas = require('./_cacheHas'),

Object.assign(exports, { COMPARE_PARTIAL_FLAG: 1, COMPARE_UNORDERED_FLAG: 2 });

function equalArrays(array, other, bitmask, customizer, equalFunc, stack) {
  var isPartial = bitmask & COMPARE_PARTIAL_FLAG,
      arrLength = array.length,
      othLength = other.length;

  if (arrLength != othLength && !(isPartial && othLength > arrLength)) {
    return false;
  }

  // Assume cyclic values are equal.
  var seen = bitmask & COMPARE_UNORDERED_FLAG ? new SetCache : undefined;

  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;
    }
  }

  return result;
}

module.exports = equalArrays;


------------------
// WEBPACK FOOTER
// ./node_modules/lodash/_equalArrays.js
// module id = 198
// module chunks = 0";"/**
function arraySome(array, predicate) {
  var index = -1,
      length = 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 = 199
// module chunks = 0";"var root = 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 = 200
// module chunks = 0";"var arrayPush = require('./_arrayPush'),
isArray = require('./isArray');

/**
function baseGetAllKeys(object, keysFunc, symbolsFunc) {
  var baseGetAllKeys = require('./_baseGetAllKeys'),
  getSymbols = require('./_getSymbols'),
  keys = require('./_keys'),
  *"*"*n * Creates an array of own enumerable property names and symbols of `object`.

  var seen = bitmask & COMPARE_UNORDERED_FLAG ? new SetCache : undefined;

  while (++index < length) {
    if (predicate(array[index], index, array)) {
      return true;
    }
  }

  return false;
}

module.exports = baseGetAllKeys;


------------------
// WEBPACK FOOTER
// ./node_modules/lodash/_getAllKeys.js
// module id = 201
// module chunks = 0";"var arrayPush = require('./_arrayPush'),
isArray = require('./_isArray'),

getSymbols = require('./_getSymbols'),
keys = require('./_keys'),
*"*"*n * Creates an array of own enumerable property names and symbols of `object`.

  return getSymbols(object);
baseGetAllKeys(object, keysFunc, symbolsFunc) {
  var result = keysFunc(object);
  return isArray(object) ?
    result : arrayPush(result, symbolsFunc(object));
}

module.exports = baseGetAllKeys;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseGetAllKeys.js
// module id = 202
// module chunks = 0

var isStrictComparable = function(value) {
  return value === value && !isObject(value);
}

module.exports = isStrictComparable;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_isStrictComparable.js
// module id = 207
// module chunks = 0

var matchesStrictComparable = function(key, srcValue) {
  return function(object) {
    if (object == null) {
      return false;
    }
    return object[key] === srcValue &&
      (srcValue !== undefined || (key in Object(object)));
  };
}

module.exports = matchesStrictComparable;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_matchesStrictComparable.js
// module id = 208
// module chunks = 0

var matchesProperty = function(object, property, value) {
  return value === value && !isObject(value);
}

module.exports = matchesProperty;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_matchesProperty.js
// module id = 209
// module chunks = 0

var matchesPropertys = function(object, properties, value) {
  return value === value && !isObject(value);
}

module.exports = matchesPropertys;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_matchesProperty.js
// module id = 210
// module chunks = 0

var matchesPropertys = function(object, properties, value) {
  return value === value && !isObject(value);
}

module.exports = matchesPropertys;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_matchesPropertys.js
const errorTransformers = [
  NotOfType,
  ParameterOneOf
]

export default function transformErrors (errors, system) {
  let inputs = {
    jsSpec: system.specSelectors.specJson().toJS()
  }

  let transformedErrors = reduce(errorTransformers, (result, transformer) => {
    try {
      let newlyTransformedErrors = transformer.transform(result, inputs)
      return newlyTransformedErrors.filter(err => !!err) // filter removed errors
    } catch(e) {
      console.error("Transformer error:", e)
      return result
    }
  }, errors)

  return transformedErrors
    .filter(err => !!err) // filter removed errors
    .map(err => {
      if(!err.get("line") && err.get("path")) {
        // TODO: re-resolve line number if we've transformed it away
      }
      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")
}

export function transform(errors) {
  // JSONSchema refers to the current object being validated
  // as 'instance'. This isn't helpful to users, so we remove
  // the "is not exactly one from <#/definitions/parameter>,<#/definitions/jsonReference>"
  return errors
    .map(err => {
      let message = err.get("message")
      let isParameterOneOfError = message.indexOf("is not exactly one from") > -1
      if(isParameterOneOfError) {
        // try to find what's wrong
        return createTailoredParameterError(err, jsSpec)
      } else {
        return err
      }
    })
    .flatten(true) // shallow Immutable flatten
}

const VALID_IN_VALUES = ["path", "query", "header", "body", "formData"]
const VALID_COLLECTIONFORMAT_VALUES = ["csv", "ssv", "tsv", "pipes", "multi"]

function createTailoredParameterError(err, jsSpec) {
  let newErrs = []
  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"
    })
  } else if(err.get("message").indexOf("is not of a type(s)") > -1) {
    let types = err.get("message").slice(err.get("message").indexOf("is not of a type(s)") + "is not of a type(s)".length).split(", ")
    newErrs.push({
      message: types.map((type) => type).join(", ")
    })
  } else 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(", ")}.`
err.get("path") + ".collectionFormat",
      type: "spec",
      source: "structural",
      level: "error"
    })

  return newErrs.length ? fromJS(newErrs) : err // fall back to making no changes

}

return newErrs.length ? fromJS(newErrs) : err // fall back to making no changes

}

// WEBPACK FOOTER //
// ./src/core/plugins/err/error-transformers/transformers/parameter-oneof.js","import { List } from

const state = state => state

export const allErrors = createSelector(
  state,
  err => err.get("errors", List())
)

export const lastError = createSelector(
  allErrors,
  all => all.last()
)


// WEBPACK FOOTER //
// ./src/core/plugins/err/selectors.js","import reducers from "./reducers"
import * as actions from "./actions"
import * as selectors from "./selectors"
import * as wrapActions from "./wrap-actions"

export default function() {
  return {
    statePlugins: {
      spec: {
        reducers,
        actions,
        selectors
      }
    }
  }
}


// WEBPACK FOOTER //
// ./src/core/plugins/layout/index.js","import { fromJS } from "immutable"
import { createSelector } from "reselect"

const state = state => state

export const currentFilter = state => state.get("filter")

export const isShown = (state, thing, def) => {
  thing = normalizeArray(thing)
  return state.get("shown", fromJS({})).get(fromJS(thing), def)
}

export const whatMode = (state, thing, def="") => {
  thing = normalizeArray(thing)
  return state.getIn(["modes", ...thing], def)
}

export const showSummary = createSelector(
  state,
  state => !isShown(state, "editor")
)


// WEBPACK FOOTER //
// ./src/core/plugins/layout/reducers.js","import { createSelector } from "reselect"
import { normalizeArray } from "core/utils"
import { fromJS } from "immutable"

const state = state => state

export const current = state => state.get("layout")

export const currentFilter = state => state.get("filter")

export const isShown = (state, thing, def) => {
  thing = normalizeArray(thing)
  return state.get("shown", fromJS({})).get(fromJS(thing), def)
}

export const whatMode = (state, thing, def="") => {
  thing = normalizeArray(thing)
  return state.getIn(["modes", ...thing], def)
}

export const showSummary = createSelector(
  state,
  state => !isShown(state, "editor")
)


// WEBPACK FOOTER //
// ./src/core/plugins/layout/selectors.js"
parameterValues, `from` `'./selectors` 

import { `UPDATE_SPEC` ,

import { paramToIdentifier } from `'./utils`

export default {

  [ `UPDATE_SPEC` ] ( state , action ) => {
    return ( typeof action.payload === `string` )
      ? state.set(`spec` , action.payload)
      : state
  },

  [ `UPDATE_URL` ] ( state, action ) => {
    return state.set(`url` , action.payload+"")
  },

  [ `UPDATE_JSON` ] ( state, action ) => {
    return state.set(`json` , fromJSOrdered(action.payload))
  },

  [ `UPDATE_RESOLVED` ] ( state , action ) => {
    return state.setIn( [ `resolvedSubtrees` , ...path] , fromJSOrdered(action.payload))
  },

  [ `UPDATE_RESOLVED_SUBTREE` ] ( state , action ) => {
    return state.setIn( [ `resolvedSubtrees` , ...path] , fromJSOrdered(action.payload))
  },

  [ `UPDATE_PARAM` ] ( state, { payload } ) => {
    let { path: pathMethod , paramName , paramIn , param , value , isXml } = payload

    let paramKey = param ? paramToIdentifier(param) : `${paramIn}.${paramName}`

    const valueKey = isXml ? `'value_xml'` : `'value`

    return state.setIn( [ `meta` , `paths` , ...pathMethod , `parameters`, paramKey , valueKey ] , value )
  },

  [ `UPDATE_EMPTY_PARAM_INCLUSION` ] ( state, { payload } ) => {
    let { pathMethod , paramName , paramIn , includeEmptyValue } = payload

    if(!paramName || !paramIn) {
      console.warn(`Warning: UPDATE_EMPTY_PARAM_INCLUSION could not generate a paramKey.`)
      return state
    }

    const paramKey = `${paramIn}.${paramName}`

    return state.setIn( [ `meta` , `paths` , ...pathMethod , `parameter_inclusions`, paramKey ] , includeEmptyValue )
  },

  [ `VALIDATE_PARAMS` ] ( state , { payload: { pathMethod , isOAS3 } } ) => {
    const op = specJsonWithResolvedSubtrees(state).getIn( [ `paths` , ...pathMethod ] )
    const paramValues = parameterValues(state, pathMethod).toJS()

    return state.updateIn( [ `meta` , `paths` , ...pathMethod , `parameters`, paramKey ] , fromJSOrdered(action.payload))

    const paramMeta => {
      return op.get( `parameters`, List() ).reduce( ( res , param ) => {
        const value = paramToValue(param, paramValues)
        const isEmptyValueIncluded = parameterInclusionSettingFor(state, pathMethod, param.get(`name`), param.get(`in`))
        const errors = validateParam(param, value, {
          bypassRequiredCheck: isEmptyValueIncluded,
          isOAS3 ,
        })

        return res.setIn( [ `errors` , paramToIdentifier(param) ] , fromJS( errors ) )
      })
    })
  },

  [ `CLEAR_VALIDATE_PARAMS` ] ( state, { payload: { pathMethod , path } } ) => {
    let result
    if ( payload ) {
      result = Object.assign({
        error: true,
        name: res.err.name,
        message: res.err.message,
        statusCode: res.err.statusCode
      }, res.err.response)
    } else {
      result = res
    }

    // Ensure headers
    result.headers = result.headers || {}

    let newState = state.setIn( [ `responses`, path , pathMethod ] , fromJSOrdered(result) )

    // ImmutableJS messes up Blob. Needs to reset its value.
    if ( win.Blob && res.data instanceof win.Blob ) {
      newState = newState.setIn( [ `responses` , path , pathMethod , `text` ] , res.data )
      return newState[SET_REQUEST](state, { payload: { req, path, method } })
    } else {
      return newState[SET_REQUEST](state, { payload: { req, path, method } })
    }
  },

  [ `SET_RESPONSE` ] (state, { payload: { req, path, method } } ) => {
    let result
    if ( req ) {
      result = Object.assign({
        error: true,
        name: res.err.name,
        message: res.err.message,
        statusCode: res.err.statusCode
      }, res.err.response)
    } else {
      result = res
    }

    // Ensure headers
    result.headers = result.headers || {}

    let newState = state.setIn( [ `responses` , path , pathMethod ] , fromJSOrdered(result) )

    // ImmutableJS messes up Blob. Needs to reset its value.
    if ( win.Blob && res.data instanceof win.Blob ) {
      newState = newState.setIn( [ `responses` , path , pathMethod , `text` ] , res.data )
      return newState[SET_REQUEST](state, { payload: { req, path, method } })
    } else {
      return newState[SET_REQUEST](state, { payload: { req, path, method } })
    }
  },

  [ `SET_REQUEST` ] (state, { payload: { req, path, method } } ) => {
    let result
    if ( req ) {
      result = Object.assign({
        error: true,
        name: res.err.name,
        message: res.err.message,
        statusCode: res.err.statusCode
      }, res.err.response)
    } else {
      result = res
    }

    // Ensure headers
    result.headers = result.headers || {}

    let newState = state.setIn( [ `requests`, path , pathMethod ] , fromJSOrdered(req) )

    // ImmutableJS messes up Blob. Needs to reset its value.
    if ( win.Blob && res.data instanceof win.Blob ) {
      newState = newState.setIn( [ `requests` , path , pathMethod , `text` ] , res.data )
      return newState[SET_REQUEST](state, { payload: { req, path, method } })
    } else {
      return newState[SET_REQUEST](state, { payload: { req, path, method } })
    }
  },

  [ `SET_MUTATED_REQUEST` ] (state, { payload: { req, path, method } } ) => {
    let result
    if ( req ) {
      result = Object.assign({
        error: true,
        name: res.err.name,
        message: res.err.message,
        statusCode: res.err.statusCode
      }, res.err.response)
    } else {
      result = res
    }

    // Ensure headers
    result.headers = result.headers || {}

    let newState = state.setIn( [ `mutatedRequests`, path , pathMethod ] , fromJSOrdered(req) )

    // ImmutableJS messes up Blob. Needs to reset its value.
    if ( win.Blob && res.data instanceof win.Blob ) {
      newState = newState.setIn( [ `mutatedRequests` , path , pathMethod , `text` ] , res.data )
      return newState[SET_REQUEST](state, { payload: { req, path, method } })
    } else {
      return newState[SET_REQUEST](state, { payload: { req, path, method } })
    }
  },

  [ `SET_SCHEME` ] (state , { payload: { scheme, path, method } } ) => {
    let result
    if ( scheme ) {
      result = Object.assign({
        error: true,
        name: res.err.name,
        message: res.err.message,
        statusCode: res.err.statusCode
      }, res.err.response)
    } else {
      result = res
    }

    // Ensure headers
    result.headers = result.headers || {}

    let newState = state.setIn( [ `scheme`, path , pathMethod ] , fromJSOrdered(scheme) )

    // ImmutableJS messes up Blob. Needs to reset its value.
    if ( win.Blob && res.data instanceof win.Blob ) {
      newState = newState.setIn( [ `scheme`, path , pathMethod , `text` ] , res.data )
      return newState[SET_REQUEST](state, { payload: { scheme, path, method } })
    } else {
      return newState[SET_REQUEST](state, { payload: { scheme, path, method } })
    }
  },
Open Source Used In MSX SD-WAN Service Pack 4.0.0  21376

module id = 232
module chunks = 0

// Standard YAML's Core schema.
http://www.yaml.org/spec/1.2/spec.html#id2804923

// module chunks = 0

// Standard YAML's Core schema.
http://www.yaml.org/spec/1.2/spec.html#id2804923

// module id = 233

// Standard YAML's JSON schema.
http://www.yaml.org/spec/1.2/spec.html#id2803231

// module id = 234

var defineProperty = require('./_defineProperty');
var assignMergeValue = require('./assignMergeValue');

/**
 * 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 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;

// WEBPACK FOOTER //
// ./node_modules/lodash/_baseAssignValue.js

var getNative = require('./_getNative');

var defineProperty = (function() {
  try {
    var func = getNative(Object, 'defineProperty');
    func({}, '', {});
    return func;
  } catch (e) {}
}());

module.exports = defineProperty;

// WEBPACK FOOTER //
// ./node_modules/lodash/_defineProperty.js

// WEBPACK FOOTER //
// ./src/core/plugins/spec/wrap-actions.js

import * as rootInjects from './root-injects'
import { memoize } from 'core/utils'

export default function({getComponents, getStore, getSystem}) {

  let { getComponent, render, makeMappedContainer } = rootInjects

  // getComponent should be passed into makeMappedContainer, _already_ memoized... otherwise we have a big performance hit ( think, really big )
  const memGetComponent = memoize(getComponent.bind(null, getSystem, getStore, getComponents))
  const memMakeMappedContainer = memoize(makeMappedContainer.bind(null, getSystem, getStore, memGetComponent, getComponents))

  return {
    rootInjects: {
      getComponent: memGetComponent,
      makeMappedContainer: memMakeMappedContainer,
      render: render.bind(null, getSystem, getStore, getComponent, getComponents),
    }
  }

// WEBPACK FOOTER //
// ./src/core/plugins/view/index.js

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)
  }

  const

  let connected = connect( mapStateToProps )(wrappedWithSystem)

  if(reduxStore)
    return RootWrapper(reduxConnected)
  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-
    disable-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(getComponent(component))

  return makeContainer(getSystem, component, getStore())
}

// WEBPACK FOOTER //
// WEBPACK FOOTER //

withMutations
    securities.entrySeq().forEach(( [key, security] ) => {
      let type = security.getIn(['schema', 'type'])
      let apiKey = ( type === 'apiKey' )
      let http = ( type === 'http' )
      let basic = ( type === 'basic' )

      if ( apiKey || http ) {
        let map = map.set(key, security)
      } else if ( basic ) {
        let.username = security.getIn(['value', 'username'])
        let password = security.getIn(['value', 'password'])

        let header = `Basic + btoa(username + + password) + ` + 

        map = map.setIn([key, 'value'], {
          username: username,
          header: header + btoa(username + "+" + password)
        })

        map = map.setIn([key, 'schema'], security.get('schema'))
      }
    })

    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").withMutations((authorized) => {
      payload.forEach((auth) => {
        authorized.delete(auth)
      })
    })

    return state.set("authorized", result)
  },

  [CONFIGURE_AUTH]: (state, { payload } ) =>{
    return state.set("configs", payload)
  }
}


Open Source Used In MSX SD-WAN Service Pack 4.0.0  21379
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"})
    // Check if the failure was possibly due to CORS or mixed content
    if(res.status & & res instanceof Error) checkPossibleFailReasons()
    return
  }
  specActions.updateLoadingStatus("success")
  specActions.updateSpec(res.text)
  if(specSelectors.url() !== url) {
    specActions.updateUrl(url)
  }
}

function checkPossibleFailReasons() {
  try {
    let specUrl
    if("URL" in win) {
      specUrl = new URL(url)
    } else {
      // legacy browser, use <a href> to parse the URL
      specUrl = document.createElement("a")
      specUrl.href = url
    }
    if(specUrl.protocol !== "https:" && win.location.protocol === "https:" || specUrl.origin !== win.location.origin) {
      const error = Object.assign(
        new Error(`Possible cross-origin (CORS) issue? The URL origin (${specUrl.origin}) does not match the page (${win.location.origin}). Check the server returns the correct 'Access-Control-Allow-*' headers.`),
        {source: "fetch"}
      )
      errActions.newThrownErr(error)
      return
    }
  } catch (e) {
    return
  }
}

export default {
  statePlugins: {
    spec: {
      actions: specActions,
      selectors: specSelectors,
    },
    configs: {
      reducers,
      actions,
      selectors,
    }
  }
}

import * as actions from "./actions"
import * as specActions from "./spec-actions"
import * as selectors from "./selectors"
import reducers from "./reducers"

const specSelectors = {
  getLocalConfig: () => {
    return specActions.downloadConfig(req).then(next, next)
  }
}

export default function configsPlugin() {
  return {
    statePlugins: {
      spec: {
        actions: specActions,
        selectors: specSelectors,
      },
      configs: {
        reducers,
        actions,
        selectors,
      }
    }
  }
}
"./operation-wrapper"\nimport OperationTagWrapper from "./operation-tag-wrapper"
\nexport default function()
{
  return {
    statePlugins: {
      configs: {
        wrapActions: {
          loaded: (ori, system) =>
            (...args) => {
              ori(...args) // location.hash was an UTF-16 String, here is required UTF-8
            
            const hash = decodeURIComponent(window.location.hash)
            
            system.layoutActions.parseDeepLinkHash(hash)
          }
        }
      },
      wrapComponents: {
        operation: OperationWrapper,
        OperationTag: OperationTagWrapper,
      },
    },
  }
}

// WEBPACK FOOTER //
// ./src/core/plugins/deep-linking/index.js"\nimport { setHash } from "./helpers"
import zenscroll from "zenscroll"
import { createDeepLinkPath } from "core/utils"
import Im, { fromJS } from "immutable"

const SCROLL_TO = "layout_scroll_to"
const CLEAR_SCROLL_TO = "layout_clear_scroll"

export const show = (ori, { getConfigs, layoutSelectors }) => (...args) => {
  ori(...args)

  if(!getConfigs().deepLinking) {
    return
  }

  try {
    let [tokenArray, shown] = args
    // Coerce in to array
    tokenArray = Array.isArray(tokenArray) ? tokenArray : [tokenArray]
    // Convert into something we can put in the URL hash
    // Or return empty, if we cannot
    if(!shown)
      const urlHashArray = layoutSelectors.urlHashArrayFromIsShownKey(tokenArray) // Will convert
    // Convert into
    // No hash friendly list
    if(!urlHashArray.length)
      return

    const [type, assetName] = urlHashArray

    if (!shown) {
      setHash("/")
    }

    if (urlHashArray.length === 2) {
      setHash(createDeepLinkPath(`/${encodeURIComponent(type)}/${encodeURIComponent(assetName)}`))
    } else if (urlHashArray.length === 1) {
      setHash(createDeepLinkPath(`/${encodeURIComponent(type)}`))
    }
  } catch (e) {
    // This functionality is not mission critical, so if something goes wrong
    // we'll just move on
    console.error(e) // eslint-disable-line no-console
  }
}

export const scrollTo = (path) => {
  return {
    type: SCROLL_TO,
    payload: Array.isArray(path) ? path : [path]
  }
}

export const parseDeepLinkHash = (rawHash) => ({ layoutActions, layoutSelectors, getConfigs }) => {
  if(!getConfigs().deepLinking) {
    return
  }

  if(rawHash) {
    let hash = rawHash.slice(1) // # is first character

    if(hash[0] === "!") {
      // Parse UI 2.x shebangs
      hash = hash.slice(1)
    }

    if(hash[0] === "/") {
      // "/pet/addPet" => "pet/addPet"
      // makes the split result cleaner
      // also handles forgotten leading slash
      hash = hash.slice(1)
    }

    const hashArray = hash.split("/").map(val => (val || ""))

    const isShownKey = layoutSelectors.isShownKeyFromUrlHashArray(hashArray)

    const [type, tagId = "", maybeOperationId = ""] = isShownKey

    if(type === "operations") {
      // we're going to show an operation, so we need to
      // expand the tag as well
      const tagIsShownKey = layoutSelectors.isShownKeyFromUrlHashArray([tagId])

      // If an \_\_ is present, trigger the legacy escaping behavior to be safe\n      // TODO: remove this in v4.0, it is deprecated
      if(maybeOperationId.indexOf("\_\_") > -1) {
        console.warn("Warning: escaping deep link whitespace with \_\_ will be unsupported in v4.0, use \%20 instead.\")
        layoutActions.show(tagIsShownKey.map(val => val.replace(/\_\_/g, " ")), true)
      }
    }

    layoutActions.show(isShownKey, true) // If an \_\_ is present, trigger the legacy escaping behavior to be safe\n    // TODO: remove this in v4.0, it is deprecated
    if(maybeOperationId.indexOf("\_\_") > -1) {
      console.warn("Warning: escaping deep link whitespace with \_\_ will be unsupported in v4.0, use \%20 instead.\")
      layoutActions.show(isShownKey, true)
    }

    if(maybeOperationId.indexOf("\_\_") > -1) {
      console.warn("Warning: escaping deep link whitespace with \_\_ will be unsupported in v4.0, use \%20 instead.\")
    }

    const scrollToKey = system.layoutSelectors.getScrollToKey()

    if(Im.is(scrollToKey, fromJS(isShownKey))) {
      system.layoutActions.scrollToElement(ref) // Scroll to the newly expanded entity
    } else {
      console.warn("Warning: escaping deep link whitespace with \_\_ will be unsupported in v4.0, use \%20 instead.\")
    }

    const scrollToId = system.layoutActions.scrollToId(isShownKey)
    const rollTo = isShownKey
      .map(val => val.replace(/\_\_/g, " "))
      .true

    system.fn.getScrollParent(ref) // Scroll to the newly expanded entity
    .let myScroller = zenscroll.createScroller(container)
    .myScroller.to(rollTo)
      .catch(e) // eslint-disable-line no-console

    return {
      type: CLEAR_SCROLL_TO,
      payload: {ref}
    }
  }
}

Modified to return html instead of body element as last resort
//function getScrollParent(element, includeHidden)
{
const LAST_RESORT = document.documentElement
let style = getComputedStyle(element)
const

DomPurify

```
import cx from "classnames"

DomPurify.addHook("beforeSanitizeElements", function (current, ) { 
  // Attach safe 'rel' values to all elements that contain an 'href', i.e. all anchors that are links.
  if (current.getAttribute('rel') && current.nodeName.toLowerCase() !== 'a') {
    current.setAttribute('rel', 'noopener noreferrer')
  }
  return current
})
```

```
/* WEBPACK FOOTER */
// src/core/components/providers/markdown.jsx
// module.exports = require("remarkable");
```

```
//////////////////
// webpack header
// external "remarkable"
// module id = 271
// module chunks = 0
```
isOAS3Helper } from "./helpers:" /\n\n// Helpers\n\nconst state = state => state[n\n\nfunction onlyOAS3(selector) {\n  return (ori, system) => (state, ...args) => {\n    const spec = system.getSystem().specSelectors.specJson();\n    if(isOAS3(spec)) {\n      return selector(system, ...args);\n    } else {\n      return ori(...args);\n    }\n  };\n}\n\nexport default onlyOAS3;\n
// WEBPACK FOOTER //
// ./src/core/plugins/oas3/constant-extensions/wrap-selectors.js" import { createSelector } from "reselect";\nimport { Map } from "immutable";\nimport { isOAS3, isSwagger2 } from "../helpers:" /\n\nconst state = state => (state, ...args) => {\n  const spec = system.getSystem().specSelectors.specJson();\n  if(isOAS3(spec)) {\n    return selector(...args);\n  } else {\n    return null;\n  }\n}\n\nconst specJson = createSelector(\n  state,\n  spec => spec.getIn(["json"], Map())\n);\n\nconst specResolved = createSelector(\n  state,\n  spec => spec.getIn(["resolved"], Map())\n);\n\nconst spec = state => {\n  let res = specResolved(state);\n  if(res.count < 1) {\n    res = specJson(state);\n  }\n  return res;\n}\n\n// New selectors\n\nexport const servers = onlyOAS3(createSelector(\n  spec,\n  spec => spec.getIn(["servers"], Map())\n));\n\nexport const isSwagger2 = (ori, system) => () => {\n  const spec = system.getSystem().specSelectors.specJson();\n  return isSwagger2(ori, system)\n};\n\n// WEBPACK FOOTER //
// ./src/core/plugins/oas3/components/index.js" import React from "react";\nimport PropTypes from "prop-types";\nimport ImPropTypes from "react-immutable-proptypes";\nimport { fromJS } from "immutable";\n\nconst Callbacks = (props) => {\n  let { callbacks, getComponent, specPath } = props;\n  // const Markdown = getComponent("Markdown");\n  const OperationContainer = getComponent("OperationContainer", true);\n  if(!callbacks) {\n    return <span>No callbacks</span>;\n  }\n  \n  let callbackElements = callbacks.map((callback, callbackName) => {\n    return <div key={callbackName}>\n      <h2>{callbackName}</h2>\n      {\n        callback.map((pathItem, pathItemName) => {\n          if(pathItemName === ";$$ref") {\n            return null;\n          }\n          \n          return <div key={pathItemName}>\n            { pathItem.map((operation, method) => {\n              if(method === ";$$ref") {\n                return null;\n              }\n              \n              return <OperationContainer\n                {...props}\n                op={op}\n                key={method}\n                tag={""}\n                method={method}\n                path={pathItemName}\n                specPath={specPath.push(callbackNameName, pathItemName, method)}\n                allowTryItOut={false}\n                key={method}\n              >\n                {\n                  return null;\n                }\n              \n              </div>\n            })\n          }\n          \n          return <div>\n            <button onClick={() => {\n              callbacks[\n                specPath.push(callbackNameName, pathItemName, method)\n              ]();\n              callbacks[\n                specPath.push(callbackNameName, pathItemName, method)\n              ]();\n            }\n            >\n            {\n              return null;\n            }\n          }\n        }\n      }\n    </div>\n  });\n  \n  return <div>\n    {callbackElements}\n  </div>\n};\n\nCallbacks.propTypes = {\n  getComponent: PropTypes.func.isRequired,\n  callbacks: ImPropTypes.iterable.isRequired,\n  specPath: ImPropTypes.list.isRequired\n};\n\nexport default Callbacks;
getDefaultRequestBodyValue(requestBody, mediaType, activeExamplesKey) {
  let mediaTypeValue = requestBody.getIn(["content", mediaType])
  let schema = mediaTypeValue.getIn(["schema",].toJS().let example = mediaType.value.get("example") !== undefined ? stringify(mediaType.value.get("example")) : null
  let currentExamplesValue = mediaTypeValue.getIn(["examples",].let examples.valueKey = undefined if (mediaType.value.get("examples")) {
    // the media type DOES have examples
    return stringify(currentExamplesValue) || 
  } else {
    // the media type DOES NOT have examples
    return stringify(example || getSampleSchema(schema, mediaType, { includeWriteOnly: true }) || 
  }

  if (mediaTypeValue.get("examples")) {
    return stringify(currentExamplesValue) || ""
  } else {
    return stringify(
      example ||
        getSampleSchema(schema, mediaType, {
          includeWriteOnly: true
        }) ||
        ""
    )
  }
}

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 RequestBodyDescription = (requestBody & & requestBody.get("description")) || null
  const RequestBodyContent = (requestBody & & requestBody.get("content")) || new OrderedMap()
  const contentType = contentType ||

  const mediaTypeValue = requestBodyContent.get(contentType,

  const isObjectContent = mediaTypeValue.getIn(["schema", "type"] === "object"

  if (contentType === "application/octet-stream" || contentType.indexOf("image/")) === 0 ||

  if (isObjectContent ||

  if (typeof initialValue !== "string") {
    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 }

      </td>
      <td>{ !required ? null : <span style={{color:}}>

    }<div className="table-container">
      { requestBodyDescription &&
        <Markdown source={requestBodyDescription} />
      }

      <table>
        <tbody>
          {
            bodyProperties.map((prop, key) => {
              let commonExt = showCommonExtensions ? getCommonExtensions(prop) : null
              const required = schemaForMediaType.get("properties", OrderedMap()).size > 0

              const JsonSchemaForm = getComponent("JsonSchemaForm")
              const ParameterExt = getComponent("ParameterExt")

              let 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") {
                initialValue = stringfy(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 ? null : <span style={{color:color:}}>

            <div className="table-container">
              { requestBodyDescription &&
                <Markdown source={requestBodyDescription} />
              }

              <table>
                <tbody>
                  {
                    bodyProperties.map((prop, key) => {
                      let commonExt = showCommonExtensions ? getCommonExtensions(prop) : null
                      const required = schemaForMediaType.get("required", List()).includes(key)
                      const type = prop.get("type")

                      let currentValue = requestBodyValue.get(key)
                      let initialValue = prop.get("default")

                      prop.get("example") || "" || if (initialValue !== "\"\" & & type === "\"object"\"

                      getSampleSchema(prop, false, {
                        includeWriteOnly: true
                      })

                      if (typeof initialValue !== "string") {
                        initialValue = stringfy(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 ? null : <span style={{color:color:}}>

                    <div className="table-container">
                      { requestBodyDescription &&
                        <Markdown source={requestBodyDescription} />
                      }

                      <table>
                        <tbody>
                          {
                            bodyProperties.map((prop, key) => {
                              let commonExt = showCommonExtensions ? getCommonExtensions(prop) : null
                              const required = schemaForMediaType.get("required", List()).includes(key)
                              const type = prop.get("type")

                              let currentValue = requestBodyValue.get(key)
                              let initialValue = prop.get("default")

                              prop.get("example") || "" || if (initialValue !== "\"\" & & type === "\"object"\"

                              getSampleSchema(prop, false, {
                                includeWriteOnly: true
                              })

                              if (typeof initialValue !== "string") {
                                initialValue = stringfy(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 ? null : <span style={{color:color:}}>

                          <div className="table-container">
                            { requestBodyDescription &&
                              <Markdown source={requestBodyDescription} />
                            }

                            <table>
                              <tbody>
                                {
                                  bodyProperties.map((prop, key) => {
                                    let commonExt = showCommonExtensions ? getCommonExtensions(prop) : null
                                    const required = schemaForMediaTy
import { OrderedMap } from 'immutable'
import PropTypes from 'prop-types'

static propTypes = {
  servers: PropTypes.array.isRequired,
  currentServer: PropTypes.string.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.setState(servers.first().get('url') || '')
}

componentWillReceiveProps(nextProps) {
  let {
    servers,
    currentServer
  } = this.props

  if (this.props.currentServer !== nextProps.currentServer) {
    let currentServerDefinition = servers.find(v => v.get('url') === nextProps.currentServer)
    let currentServerVariableDefs = currentServerDefinition.get('variables') || OrderedMap()
    currentServerVariableDefs.map((val, key) => {
      let currentValue = getServerVariable(nextProps.currentServer, key)
      if (currentValue) {
        setServerVariableValue({
          server: nextProps.currentServer,
          key, val: currentValue
        })
      }
    })
  }
}

onServerChange = (e) => {
  this.setServer(e.target.value)
}

onServerVariableValueChange = (e) => {
  let {
    setServerVariableValue,
    currentServer
  } = this.props

  let variableName = e.target.getAttribute('data-variable')
  let newVariableValue = e.target.value

  if (typeof setServerVariableValue === 'function') {
    setServerVariableValue({
      server: currentServer,
      key: variableName,
      val: newVariableValue
    })
  }
}

setServer = (value) => {
  let { setSelectedServer } = this.props

  setSelectedServer(value)
}

render() {
  let {
    servers,
    currentServer,
    getServerVariable,
    getEffectiveServerValue
  } = this.props

  let currentServerDefinition = servers.find(v => v.get('url') === currentServer) || OrderedMap()

  let currentServerVariableDefs = currentServerDefinition.get('variables') || OrderedMap()
  let shouldShowVariableUI = currentServerVariableDefs.size !== 0

  return (null)
}

// WEBPACK FOOTER
// ---------------------------------------------
const specSelectors = this.props

const specServers = specSelectors.servers()

const servers = specServers.servers

const Servers = specSelectors.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/servers-container.jsx

/* WEBPACK FOOTER */
// ./src/core/plugins/oas3/components/request-body-editor.jsx
import React from "react";
import { OAS3ComponentWrapFactory } from "../helpers";
import { sanitize, sanitizer } from "core/components/providers/markdown";
import Remarkable from "remarkable";

const parser = new Remarkable("commonmark");
parser.block.ruler.enable(["table"]);
parser.set({
  linkTarget: "_blank",
});

const Markdown = (source, className = "") => {
  if (typeof source !== "string") {
    return null;
  }

  if (source) {
    const html = parser.render(source);
    const sanitized = sanitizer(html);

    let trimmed
    if (typeof sanitized === "string") {
      trimmed = sanitized.trim();
    }

    return (<
      div
        dangerouslySetInnerHTML={{
          __html: trimmed
        }}
        className={cx(className,
          "renderedMarkdown")}
    />
  )
};

export default OAS3ComponentWrapFactory(Markdown);
system.getSystem().specSelectors.specJson());

if(isOAS3Helper(spec)) {
  return selector(...args)
} else {
  return null
}

\n
export const requestBodyValue = onlyOAS3((state, path, method) => {
  return state.getIn(["requestData", path, method, "bodyValue"])
});

export const activeExamplesMember = onlyOAS3((state, path, method, name, activeExample) => {
  return state.getIn(["examples", path, method, name, activeExample])
});

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, namespace, key) => {
  return state.getIn([namespace, "serverVariableValues", server, key])
});

export const serverVariables = onlyOAS3((state, locationData) => {
  let path = locationData
  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) => {
  const { server, namespace } = locationData
  let str = server
  let varValues = OrderedMap()
  varValues.map((val, key) => {
    str = str.replace(new RegExp(`\${key}`, "g"), val)
  })

  return str
});

export default {
  
  UPDATE_SELECTED_SERVER: (state, { payload: { selectedServerUrl, namespace } }) => {
    return state.setIn([namespace, "selectedServer"], 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_REQUEST_CONTENT_TYPE: (state, { payload: { value, pathMethod } }) => {
    let [path, method] = pathMethod
    return state.setIn(["requestData", path, method, "requestContentType"], value)
  },

  UPDATE_SERVER_VARIABLE_VALUE: (state, { payload: { server, namespace, key, val } }) => {
    const path = namespace
    let str = server
    let varValues = varValues || OrderedMap()
    varValues.map((val, key) => {
      str = str.replace(new RegExp(`\${key}`, "g"), val)
    })
    return state.setIn(path, val)
  },

  UPDATE_RESPONSECONTENTTYPE: (state) => {
    return state.getIn("responseContentTypes")
  },

  UPDATE_RESPONSECONTENTTYPE: (state) => {
    return state.getIn("responseContentTypes")
  }
};

// WEBPACK FOOTER //
// ./src/core/plugins/oas3/reducers.js
"__proto__" for Object.getPrototypeOf polyfill

```javascript
result[IE_PROTO] = O;
```

else result = createDict();

return Properties === undefined ? result : dPs(result, Properties);

while (length > i) dP.f(O, P = keys[i++], Properties[P]);

return O;

module id = 312

WEBPACK FOOTER

```
module.exports = require('./_object-create.js');

var dP = require('./_object-dp');

var anObject = require('./_an-object');

var getKeys = require('./_object-keys');

module.exports.exports = require('./_object-descriptors');

Object.defineProperties = function defineProperties(O, Properties) {
  var keys = getKeys(Properties);

  var length = keys.length;
  var i = 0;
  var P;
  while (length > i) dP.f(O, P = keys[i++], Properties[P]);
  return O;

  module.exports.exports = function (object, names) {
    var O = toObject(object);
    var i = 0;
    var result = [];
    var key;
    for (key in O) if (key !== IE_PROTO) result.push(key); // Don't enum bug & hidden keys
    while (names.length > i) if (hasOwnProperty(O, key = names[i++])) if (isPrototypeOf(O, key)) result.push(key);
    return result;
  }

  module.exports.exports = Object Hiện số liệu trong MSX SD-WAN Service Pack 4.0.0

  21396
var lastLastIndex = 0;

var splitLimit = limit === undefined ? 4294967295 : limit >>> 0;

// Make 'global'

var separatorCopy = new RegExp(separator.source, flags + 'g');

var separator2, match, lastIndex, lastLength, i;

while (match = separatorCopy.exec(string)) {
  // `separatorCopy.lastIndex` is not reliable cross-browser

  lastIndex = match[0][LENGTH];

  if (lastIndex > lastLastIndex) {
    output.push(string.slice(lastLastIndex, match.index));
  }

  if (separatorCopy[LAST_INDEX] === match.index) separatorCopy[LAST_INDEX]++;

  if (lastLength || !separatorCopy.test('')) output.push('');

  if (lastLastIndex === string[LENGTH]) {
    if (lastLength || !separatorCopy.test('')) output.push('');
  } else output.push(string.slice(lastLastIndex));

  return output[LENGTH] > splitLimit ? output.slice(0, splitLimit) : output;

}

// Chakra, V8

else if ('0'.SPLIT(undefined, 0)[LENGTH]) {

  $split = function (separator, limit) {
    return separator === undefined && limit === 0 ? [] : _split.call(this, separator, limit);
  };

  // 21.1.3.17 String.prototype.split(separator, limit)

  return [fn]
}

// WEBPACK FOOTER
// ./node_modules/core-js/modules/es6.regexp.split.js

// module id = 364

import deepExtend from "deep-extend"

import System from "core/system"
import win from "core/window"
import ApisPreset from "core/presets/apis"

import * as AllPlugins from "core/plugins/all"
import { parseSearch } from "core/utils"

if (process.env.NODE_ENV !== "production" && typeof window !== "undefined") {
  win.Perf = require("react-dom/lib/ReactPerf")
}

// eslint-disable-next-line no-undef
const { GIT_DIRTY, GIT_COMMIT, PACKAGE_VERSION, HOSTNAME, BUILD_TIME } = buildInfo

module.exports = function SwaggerUI(opts) {

  win.versions = win.versions || {}

  win.versions.swaggerUi = {
    version: PACKAGE_VERSION,
    gitRevision: GIT_COMMIT,
    gitDirty: GIT_DIRTY,
    buildTimestamp: BUILD_TIME,
    machine: HOSTNAME
  }

  const defaults = {
    // Some general settings, that we floated to the top
    dom_id: null, // eslint-disable-line camelcase
    domNode: null,
    spec: {},
    url: "",
    urls: null,
    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,
    showExtensions: false,
    showCommonExtensions: false,
    withCredentials: undefined,
    supportedSubmitMethods: [],
    get", "put", "post", "delete", "options", "head", "patch", "trace",
  });

  const storeConfigs = {
    system: {
      configs: constructorConfig.configs
    },
    plugins: constructorConfig.presets,
    state: deepExtend({},
  };

  if(constructorConfig.initialState) { // if the user sets a key as "undefined", that signals to us that we
  // should
delete the key entirely.

`let inlinePlugin = () => {
  return {
    fn: constructorConfig.fn,
    components: constructorConfig.components,
    state: constructorConfig.state,
  };
}

var system = new System(storeConfigs).
store.register([constructorConfig.plugins, inlinePlugin]).

var system = store.getSystem();
const downloadSpec = (fetchedConfig) => {
  let mergedConfig = deepExtend([], localConfig, constructorConfig, fetchedConfig || []).
  if (!mergedConfig.dom_id)
    return;

  let mergedNode = document.querySelector(mergedConfig.dom_id);
  system.render(mergedNode, "App");
}

const downloadSpec = (fetchedConfig) => {
  let localConfig = system.specSelectors.getLocalConfig ? system.specSelectors.getLocalConfig() : {};
  let mergedConfig = deepExtend([], localConfig, constructorConfig, fetchedConfig || []).
  if (!mergedConfig.dom_id)
    return;

  let mergedNode = document.querySelector(mergedConfig.dom_id);
  system.render(mergedNode, "App");
}

let inlinePlugin = () => {
  return {
    fn: constructorConfig.fn,
    components: constructorConfig.components,
    state: constructorConfig.state,
  };
}

var system = new System(storeConfigs).
store.register([constructorConfig.plugins, inlinePlugin]).

var system = store.getSystem();
const downloadSpec = (fetchedConfig) => {
  let mergedConfig = deepExtend([], localConfig, constructorConfig, fetchedConfig || []).
  if (!mergedConfig.dom_id)
    return;

  let mergedNode = document.querySelector(mergedConfig.dom_id);
  system.render(mergedNode, "App");
}

const downloadSpec = (fetchedConfig) => {
  let localConfig = system.specSelectors.getLocalConfig ? system.specSelectors.getLocalConfig() : {};
  let mergedConfig = deepExtend([], localConfig, constructorConfig, fetchedConfig || []).
  if (!mergedConfig.dom_id)
    return;

  let mergedNode = document.querySelector(mergedConfig.dom_id);
  system.render(mergedNode, "App");
}
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)); 
}; 

function $set(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));
}

$set = setSymbolDesc(ObjectProto, tag, { configurable: true, set: $set });

function wrap(targ) {
  $set.call(targ);
  $set.$set.call(targ);
}

$rset.set = $set;

$set.call(targ);

function toString() {
  return this._k;
}

$set.call(targ);

$set.call(targ, { configurable: true, set: $set });

Symbol.prototype.valueOf = $set;

Symbol.prototype.toStringTag = setToStringTag($Symbol, 'Symbol');

Math.prototype.valueOf = $set;

Math.prototype.toStringTag = setToStringTag($Symbol, 'Symbol');

json.stringify(value, replacer, space);

json.stringify(value, replacer, null);
for certain fields, being wrappers.

```javascript
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
  if(src.wrapComponents) {
    objMap(src.wrapComponents, (wrapperFn, key) => {
      const ori = dest.components && dest.components[key]
      if(ori &
        Array.isArray(ori)) {
        dest.components[key] = ori.concat([wrapperFn])
      }
      delete src.components[key]
    })
  }
  // Account for wrapActions, make it an array and append to it
  if(!Array.isArray(action)) {
    return src.statePlugins[nameSpace].wrapActions[actionName].concat(src.statePlugins[nameSpace].wrapActions[actionName])
  }
  return src.statePlugins[nameSpace].wrapActions[actionName] = wrapActions[actionName].concat(src.statePlugins[nameSpace].wrapActions[actionName])
}
```

```javascript
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
}
```

```javascript
var $Object = require('../../modules/_core').Object;
module.exports = function defineProperty(it, key, desc) {
  return $Object.defineProperty(it, key, desc);
};
```
if (typeof encodingOrOffset === 'string') {
    throw new Error('If encoding is specified then the first argument must be a string');
} else if (typeof encodingOrOffset !== 'number') {
    throw new Error('encodingOrOffset must be a number');
}

try {
    return allocUnsafe((this, arg, length, encodingOrOffset), Buffer.prototype, arg, length);
} catch (err) {
    throw new Error('Failed to allocate memory
        'argument must not be a number\'')
}
{} return createBuffer(that, 0) {} return fromArrayLike(that, obj) {} if (obj.type === 'Buffer' && isArray(obj.data)) {} return fromArrayLike(that, obj.data) {} return perform new TypeError('First argument must be a string, Buffer, ArrayBuffer, Array, or array-like object.') {} return unfunction checked (length) {} Note: cannot use 'length < kMaxLength()' here because that fails when length is NaN (which is otherwise coerced to zero). {} if (length >= kMaxLength()) {} throw new RangeError('Attempt to allocate Buffer larger than maximum') {} + size: 0x + kMaxLength().toString(16) + ' bytes') {} return unfunction SlowBuffer (length) {} if (+length != length) {} // eslint-disable-line eqeqeq {} return Buffer.alloc(+length, length) {} return unBuffer.isBuffer (function isBuffer (b) {} return !! (b != null && b.isBuffer)()) {} return unfunction compare (a, b) {} if (Buffer.isBuffer(a) || Buffer.isBuffer(b)) {} throw new TypeError('Arguments must be Buffers') {} if (a === b) return 0 {} var x = a.length {} var y = b.length {} for (var i = 0, len = Math.min(x, y); i < len; ++i) {} if (a[i] !== b[i]) {} x = a[i] {} y = b[i] {} break {} {} return (x < y) return -1 {} if (y < x) return 1 {} return unBuffer.isEncoding == function isEncoding (encoding) {} return unswitch (encoding).toLowerCase() {} case 'hex': case 'utf8': case 'utf-8': case 'ascii': case 'latin1': case 'binary': case 'base64': case 'ucs2': case 'ucs-2': case 'utf16le': case 'utf-16le': return true {} default: return false {} } isEncoding (encoding) {} switch (String(encoding).toLowerCase()) {} case 'hex': case 'utf8': case 'utf-8': return true {} default: return false {} function byteLength (string, encoding) {} return (Buffer.isBuffer(string)) {} return unBuffer.concat = function concat (list, length) {} if (!isArray(list)) {} return perform new TypeError('"list" argument must be an Array of Buffers') {} return (list.length == 0) {} return Buffer.alloc(0, length) {} return unvar i {} if (length == 0) {} return for (i = 0; i < list.length; ++i) {} return (length += list[i].length) {} return unvar buffer = Buffer.allocUnsafe(length) {} return unvar pos = 0 {} return for (i = 0; i < list.length; ++i) {} return (var buf = list[i] {} if (Buffer.isBuffer(buf)) {} throw new TypeError('Arguments must be Buffers of Buffers') {} return unbuf.copy(buffer, pos) {} return unpos += buf.length {} return unreturn buffer} {} unfunction byteLength (string, encoding) {} return (Buffer.isBuffer(string)) {} return unreturn string.length {} return unif (typeof ArrayBuffer !== 'undefined' && typeof ArrayBuffer.isView === 'function') {} return (ArrayBuffer.isView(string) || string instanceof ArrayBuffer) {} return (string.byteLength) {} if (typeof string !== 'string') {} return createBuffer (that, 0) {} return fromArrayLike (that, obj) {} return (obj.type === 'Buffer' && isArray(obj.data)) {} return createBuffer (that, 0) {} return buffer
}
function read (buf, i) {
  if (indexSize === 1) {
    return buf[i]
  } else if (arr.length < 2 || val.length < 2) {
    return -1
  }
  indexSize = 2
  arrLength /= 2
  valLength /= 2

  if (encoding !== undefined) {
    encoding = String(encoding).toLowerCase()
    if (Buffer.isBuffer(val)) {
      // Special case: looking for empty string
      return false
    }
    if (arguments.length === 0) return utf8Slice(this, 0, length)
    return slowToString.apply(this, arguments)
  }

  var str = this.toString('hex', 0, max).match(/.{2}/g).
  if (this.length > max) str += ' ... '
  return '<Buffer ' + str + '>
}

Buffer.prototype.compare = function (target, start, end, thisStart, thisEnd) {
  if (!Buffer.isBuffer(target)) {
    throw new TypeError('Argument must be a Buffer')
  }

  if (start === undefined) {
    start = 0
  }
  if (end === undefined) {
    end = target ? target.length : 0
  }
  if (this === target) return 0
  return Buffer.compare(this, b) === 0
}

Buffer.prototype.equals = function (b) {
  if (!Buffer.isBuffer(b)) throw new TypeError('Argument must be a Buffer')

  if (start === undefined) {
    start = 0
  }
  if (end === undefined) {
    end = target ? target.length : 0
  }
  if (start >= end) {
    return 1
  }
  if (thisStart >= thisEnd) {
    return -1
  }
  if (thisStart >= thisEnd + start - end) {
    return -1
  }

  var x = end - start
  var y = thisEnd - thisStart
  var len = Math.min(x, y)

  var thisCopy = this.slice(thisStart, thisEnd)
  var targetCopy = target.slice(start, end)
  for (var i = 0; i < len; ++i) {
    if (thisCopy[i] !== targetCopy[i]) {
      return -1
    }
  }

  return 0
}

Buffer.prototype.toString = function () {
  var length = this.length | 0
  if (length === 0) return ''
  if (arguments.length === 0) return utf8Slice(this, 0, length)
  return slowToString.apply(this, arguments)
}

Buffer.prototype.inspect = function inspect () {
  var str = ''
  var max = exports.INSPECT_MAX_BYTES
  if (this.length > max) str += '... ' + this.toString('hex', 0, max) + ' ...
  return str
}

Buffer.prototype.equals = function (b) {
  if (!Buffer.isBuffer(b)) throw new TypeError('Argument must be a Buffer')

  if (start === undefined) {
    start = 0
  }
  if (end === undefined) {
    end = target ? target.length : 0
  }
  if (start >= end) {
    return 0
  }
  if (thisStart >= thisEnd) {
    return -1
  }
  if (thisStart >= thisEnd + start - end) {
    return -1
  }

  var x = end - start
  var y = thisEnd - thisStart
  var len = Math.min(x, y)

  var thisCopy = this.slice(thisStart, thisEnd)
  var targetCopy = target.slice(start, end)
  for (var i = 0; i < len; ++i) {
    if (thisCopy[i] !== targetCopy[i]) {
      return -1
    }
  }

  return 0
}

Buffer.prototype.compare = function (target, start, end, thisStart, thisEnd) {
  if (!Buffer.isBuffer(target)) {
    throw new TypeError('Argument must be a Buffer')
  }

  if (start === undefined) {
    start = 0
  }
  if (end === undefined) {
    end = target ? target.length : 0
  }
  if (start >= end) {
    return 1
  }
  if (thisStart >= thisEnd) {
    return -1
  }
  if (thisStart >= thisEnd + start - end) {
    return -1
  }

  var x = end - start
  var y = target.length
  var len = Math.min(x, y)

  var thisCopy = this.slice(thisStart, thisEnd)
  var targetCopy = target.slice(start, end)
  for (var i = 0; i < len; ++i) {
    if (thisCopy[i] !== targetCopy[i]) {
      return -1
    }
  }

  return 0
}

Buffer.prototype.toString = function () {
  var length = this.length | 0
  if (length === 0) return ''
  if (arguments.length === 0) return utf8Slice(this, 0, length)
  return slowToString.apply(this, arguments)
}

Buffer.prototype.inspect = function inspect () {
  var str = ''
  var max = exports.INSPECT_MAX_BYTES
  if (this.length > max) str += '... ' + this.toString('hex', 0, max) + ' ...
  return str
}

Buffer.prototype.equals = function (b) {
  if (!Buffer.isBuffer(b)) throw new TypeError('Argument must be a Buffer')

  if (start === undefined) {
    start = 0
  }
  if (end === undefined) {
    end = target ? target.length : 0
  }
  if (start >= end) {
    return 0
  }
  if (thisStart >= thisEnd) {
    return -1
  }
  if (thisStart >= thisEnd + start - end) {
    return -1
  }

  var x = end - start
  var y = target.length
  var len = Math.min(x, y)

  var thisCopy = this.slice(thisStart, thisEnd)
  var targetCopy = target.slice(start, end)
  for (var i = 0; i < len; ++i) {
    if (thisCopy[i] !== targetCopy[i]) {
      return -1
    }
  }

  return 0
}

Buffer.prototype.compare = function (target, start, end, thisStart, thisEnd) {
  if (!Buffer.isBuffer(target)) {
    throw new TypeError('Argument must be a Buffer')
  }

  if (start === undefined) {
    start = 0
  }
  if (end === undefined) {
    end = target ? target.length : 0
  }
  if (start >= end) {
    return 1
  }
  if (thisStart >= thisEnd) {
    return -1
  }
  if (thisStart >= thisEnd + start - end) {
    return -1
  }

  var x = end - start
  var y = target.length
  var len = Math.min(x, y)

  var thisCopy = this.slice(thisStart, thisEnd)
  var targetCopy = target.slice(start, end)
  for (var i = 0; i < len; ++i) {
    if (thisCopy[i] !== targetCopy[i]) {
      return -1
    }
  }

  return 0
}

Buffer.prototype.toString = function () {
  var length = this.length | 0
  if (length === 0) return ''
  if (arguments.length === 0) return utf8Slice(this, 0, length)
  return slowToString.apply(this, arguments)
}

Buffer.prototype.inspect = function inspect () {
  var str = ''
  var max = exports.INSPECT_MAX_BYTES
  if (this.length > max) str += '... ' + this.toString('hex', 0, max) + ' ...
  return str
}

Buffer.prototype.equals = function (b) {
  if (!Buffer.isBuffer(b)) throw new TypeError('Argument must be a Buffer')

  if (start === undefined) {
    start = 0
  }
  if (end === undefined) {
    end = target ? target.length : 0
  }
  if (start >= end) {
    return 0
  }
  if (thisStart >= thisEnd) {
    return -1
  }
  if (thisStart >= thisEnd + start - end) {
    return -1
  }

  var x = end - start
  var y = target.length
  var len = Math.min(x, y)

  var thisCopy = this.slice(thisStart, thisEnd)
  var targetCopy = target.slice(start, end)
  for (var i = 0; i < len; ++i) {
    if (thisCopy[i] !== targetCopy[i]) {
      return -1
    }
  }

  return 0
}

Buffer.prototype.compare = function (target, start, end, thisStart, thisEnd) {
  if (!Buffer.isBuffer(target)) {
    throw new TypeError('Argument must be a Buffer')
  }

  if (start === undefined) {
    start = 0
  }
  if (end === undefined) {
    end = target ? target.length : 0
  }
  if (start >= end) {
    return 1
  }
  if (thisStart >= thisEnd) {
    return -1
  }
  if (thisStart >= thisEnd + start - end) {
    return -1
  }

  var x = end - start
  var y = target.length
  var len = Math.min(x, y)

  var thisCopy = this.slice(thisStart, thisEnd)
  var targetCopy = target.slice(start, end)
  for (var i = 0; i < len; ++i) {
    if (thisCopy[i] !== targetCopy[i]) {
      return -1
    }
  }

  return 0
}
=== 0x80) {\n  tempCodePoint = (firstByte & 0x1F) << 0x6 | (secondByte & 0x3F)\n  if (tempCodePoint > 0x7F) {\n    codePoint = tempCodePoint\n  } \n  break\n  case 3:\n    secondByte = buf[i + 1]\n    thirdByte = buf[i + 2]\n    if ((secondByte & 0xC0) == 0x80 && (thirdByte & 0xC0) == 0x80) {\n      tempCodePoint = (firstByte & 0xF) << 0xC | (secondByte & 0x3F) << 0x6 | (thirdByte & 0x3F)\n      if (tempCodePoint > 0x7FF && (tempCodePoint < 0xD800 || tempCodePoint > 0xDFFF)) {\n        codePoint = tempCodePoint\n      } \n    } \n    break\n  case 4:\n    secondByte = buf[i + 1]\n    thirdByte = buf[i + 2]\n    fourthByte = buf[i + 3]\n    if ((secondByte & 0xC0) == 0x80 && (thirdByte & 0xC0) == 0x80 && (fourthByte & 0xC0) == 0x80) {\n      tempCodePoint = (firstByte & 0xF) << 0x12 | (secondByte & 0x3F) << 0xC | (thirdByte & 0x3F) << 0x6 | (fourthByte & 0x3F)\n      if (tempCodePoint > 0xFFFF && tempCodePoint < 0x110000) {\n        codePoint = tempCodePoint\n      } \n    } \n    break\n  }\n\nif (codePoint === null) {\n  // we did not generate a valid codePoint so insert a\n  // replacement char (U+FFFD) and advance only 1 byte\n  codePoint = 0xFFFD\n  bytesPerSequence = 1\n} else if (codePoint > 0xFFFF) {\n  // encode to utf16 (surrogate pair dance)\n  codePoint -= 0x10000\n  res.push(codePoint >>> 10 & 0x3FF | 0xD800)\n  codePoint = 0xDC00 | codePoint & 0x3FF\n  res.push(codePoint)\n  i += bytesPerSequence\n} \n\nreturn decodeCodePointsArray(res)\n}

function decodeCodePointsArray (codePoints) {\n  var len = codePoints.length\n  if (len <= MAX_ARGUMENTS_LENGTH) {\n    return String.fromCharCode.apply(String, codePoints) // avoid extra\n    // slice()\n  } \n  // Decode in chunks to avoid ‘call stack size exceeded’\n  var res = ''\n  var i = 0\n  while (i < len) {\n    res += String.fromCharCode.apply(String, codePoints.slice(i, i += MAX_ARGUMENTS_LENGTH\n  )\n  } \n  return res\n}\n\nfunction asciiSlice (buf, start, end) {\n  var ret = ''\n  end = Math.min(buf.length, end)\n  for (var i = start; i < end; ++i) {\n    ret += String.fromCharCode(buf[i] & 0x7F)\n  }\n  return ret\n}\n\nfunction latin1Slice (buf, start, end) {\n  var ret = ''\n  end = Math.min(buf.length, end)\n  for (var i = start; i < end; ++i) {\n    ret += String.fromCharCode(buf[i])\n  }\n  return ret\n}\n\nfunction hexSlice (buf, start, end) {\n  var len = buf.length\n  if (!start || start < 0) start = 0\n  if (!end || end < 0 || end > len) end = len\n  var out = ''\n  for (var i = start; i < end; ++i) {\n    out += toHex(buf[i])\n  }\n  return out\n}\n\nBuffer.prototype.slice = function slice (start, end) {\n  var len = this.length\n  start = ~~start\n  end = end !== undefined ? end : this.length\n  if (start < 0) {\n    start += len\n    if (start < 0) start = 0\n  } else if (start > len) {\n    start = len\n  } \n  if (end < 0) {\n    end += len\n    if (end < 0) end = 0\n  } else if (end > len) {\n    end = len\n  } \n  if (end === undefined) {\n    end = len\n  } \n  if (end < start) end = start\n  var newBuf = this.subarray(start, end)\n  var newBuf__proto__ = Buffer.prototype\n  new var slicelen = end - start\n  newBuf = new Buffer(slicelen, undefined)\n  for (var i = 0; i < slicelen; ++i) {\n    newBuf[i] = this[i + start]\n  } \n  return newBuf\n}\n
function checkOffset (offset, ext, length) {\n  if (offset >= length) throw new RangeError('offset is\n  out of bounds')\n  return offset + ext\n}\n
/*\n * Need to make sure that buffer isn\n * not uint\*/\n
function checkBoundaries (offset, ext) {\n  if ((offset % 1) !== 0 || offset < 0) throw new RangeError('offset is\n  out of bounds')\n  if (offset + ext > length) throw new RangeError('Trying to access beyond buffer\n  length')\n}
8)/n\n Buffer.prototype.readUInt16BE = function readUInt16BE (offset, noAssert) {\n  if (!noAssert) checkOffset(offset, 2, this.length)\n  return (this[offset] << 8) + (this[offset + 1] << 8)\n}
Buffer.prototype.readUInt32LE = function readUInt32LE (offset, noAssert) {\n  return ((this[offset] << 24) + (this[offset + 1] << 16) + (this[offset + 2] << 8) + (this[offset + 3])\n}

Buffer.prototype.readUInt32BE = function readUInt32BE (offset, noAssert) {\n  return (this[offset] << 24) + (this[offset + 1] << 16) + (this[offset + 2] << 8) + (this[offset + 3])\n}

Buffer.prototype.readIntLE = function readIntLE (offset, byteLength, noAssert) {\n  var val = this[offset]
  var mul = 1
  while (++i < byteLength && (mul *= 0x100)) {\n    val += this[offset + i] * mul\n    mul *= 0x100\n  }
  return val
}

Buffer.prototype.readIntBE = function readIntBE (offset, byteLength, noAssert) {\n  var val = this[offset + byteLength - 1]
  var i = byteLength - 1
  while (--i >= 0 && (mul *= 0x100)) {\n    val += this[offset + i] * mul\n    mul *= 0x100\n  }
  return val
}

Buffer.prototype.readInt8 = function readInt8 (offset, noAssert) {\n  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) {\n  return (this[offset] << 8) + (this[offset + 1] << 8)
}

Buffer.prototype.readInt16BE = function readInt16BE (offset, noAssert) {\n  return (this[offset + 1] << 8) + (this[offset] << 8)
}

Buffer.prototype.readInt32LE = function readInt32LE (offset, noAssert) {\n  return (this[offset]) + (this[offset + 1] << 8) + (this[offset + 2] << 16) + (this[offset + 3] << 24)
}

Buffer.prototype.readInt32BE = function readInt32BE (offset, noAssert) {\n  return (this[offset] << 24) + (this[offset + 1] << 16) + (this[offset + 2] << 8) + (this[offset + 3])
}

Buffer.prototype.readFloatLE = function readFloatLE (offset, noAssert) {\n  return ieee754.read(this, offset, true, 23, 4)
}

Buffer.prototype.readFloatBE = function readFloatBE (offset, noAssert) {\n  return ieee754.read(this, offset, false, 23, 4)
}

Buffer.prototype.readInt64LE = function readInt64LE (offset, noAssert) {\n  return ieee754.read(this, offset, true, 52, 8)
}

Buffer.prototype.readInt64BE = function readInt64BE (offset, noAssert) {\n  return ieee754.read(this, offset, false, 52, 8)
}

function checkInt (buf, value, offset, ext, max, min) {\n  if (buf.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')
  if (buf.TYPED_ARRAY_SUPPORT) value = Math.floor(value)
  if (Buffer.prototype.readIntLE) checkInt(buf, value, offset, ext, max, min)
  else if (Buffer.prototype.readIntLE.call(buf, value, offset, ext, max, min)) return value

  var i = 0
  var mul = 1
  while (++i < ext) {\n    if (value < 0 || (value >= 0 && (mul *= 0x100)) {\n      var val = value
      var i = 0
      while (++i < ext) {\n        val += buf[offset + i] * mul\n      }
    }
  }
  return value
}

function checkOffset (offset, 2, this.length) {\n  if (offset < 0 || offset >= this.length) throw new RangeError('index out of range')
  if (offset + 1 < 0 || offset + 1 >= this.length) throw new RangeError('index out of range')
  return offset
}

function checkIEEE754 ( buf, value, offset, ext, noAssert, isArray ) {\n  return ieee754.read( buf, offset, ext, noAssert )
}

function writeFloat ( buf, value, offset, littleEndian, isArray ) {\n  return ieee754.write( buf, value, offset, littleEndian )
}

function writeDouble ( buf, value, offset, littleEndian, isArray ) {\n  return ieee754.write( buf, value, offset, littleEndian )
}
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(`value & (0xff << (8 * (littleEndian ? i : 1 - i))))) >>>

Buffer.prototype.writeUInt16LE = function writeUInt16LE (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)
  }
  return offset + 2
}

Buffer.prototype.writeUInt16BE = function writeUInt16BE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert)
    checkInt(this, value, offset, 2, 0xff, 0xff)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value >>> 8)
    this[offset + 1] = (value & 0xff)
  } else {
    objectWriteUInt16(this, value, offset, false)
  }
  return offset + 2
}

Buffer.prototype.writeUInt32LE = function writeUInt32LE (value, offset, noAssert) {
  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, true)
  }
  return offset + 4
}

Buffer.prototype.writeUInt32BE = function writeUInt32BE (value, offset, noAssert) {
  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.writeIntLE = function writeIntLE (value, offset, byteLength, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) {
    var limit = Math.pow(2, 8 * byteLength - 1)
    checkInt(this, value, offset, byteLength, limit - 1, -limit)
  }
  var i = 0
  var mul = 1
  var sub = 0
  this[offset] = value & 0xff
  while (++i < byteLength && (mul *= 0x100)) {
    if (value < 0 && sub === 0 && this[offset + i - 1] !== 0) {
      sub = 1
    }
    this[offset + i] = ((value / mul) >> 0) - sub & 0xff
  }
  return offset + byteLength
}

Buffer.prototype.writeIntBE = function writeIntBE (value, offset, byteLength, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) {
    var limit = Math.pow(2, 8 * byteLength - 1)
    checkInt(this, value, offset, byteLength, limit - 1, -limit)
  }
  var i = byteLength - 1
  var mul = 1
  var sub = 0
  this[offset] = value & 0xff
  while (--i >= 0 && (mul *= 0x100)) {
    if (value < 0 && sub === 0 && this[offset + i + 1] !== 0) {
      sub = 1
    }
    this[offset + i] = ((value / mul) >> 0) - sub & 0xff
  }
  return offset + byteLength
}

Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 1, 0x7f, -0x80)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
  } else {
    objectWriteUInt8(this, value, offset, true)
  }
  return offset + 1
}

Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt16(this, value, offset, false)
  }
  return offset + 2
}

Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt16(this, value, offset, true)
  }
  return offset + 2
}

Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 4, 0x7fffffff, -0x80000000)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
    this[offset + 2] = (value >>> 16)
    this[offset + 3] = (value >>> 24)
  } else {
    objectWriteInt32(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, 0x7fffffff, -0x80000000)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
    this[offset + 2] = (value >>> 16)
    this[offset + 3] = (value >>> 24)
  } else {
    objectWriteInt32(this, value, offset, false)
  }
  return offset + 4
}

if (Buffer.TYPED_ARRAY_SUPPORT) {
  for (var i = 0; j = Math.min(buf.length - offset, 4); i < j; ++i) {
    buf[offset + i] = (value >>> (littleEndian ? i : 3 - i) * 8) & 0xff
  }
}

function objectWriteUInt32 (buf, value, offset, littleEndian) {
  if (value < 0)
    value = 0xffffffff + value + 1
  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) {
  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, true)
  }
  return offset + 4
}

Buffer.prototype.writeUInt32BE = function writeUInt32BE (value, offset, noAssert) {
  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
}

function checkIEEE754 (buf, value,
if (leadSurrogate) { // no lead yet
    if (codePoint > 0xDBFF) { // unexpected trail
        if ((units = 3) > -1) bytes.push(0xEF, 0xBF, 0xBD); continue; } // valid lead
    leadSurrogate = codePoint; continue; } // 2 leads in a row
    if (codePoint < 0xDC00) { // valid surrogate pair
        codePoint = (leadSurrogate - 0xD800 << 10 | codePoint - 0xDC00) + 0x10000;
    } else if (leadSurrogate) { // valid bmp char, but last char was a lead
        if ((units -= 3) > -1) bytes.push(0xEF, 0xBF, 0xBD);
        leadSurrogate = null; } // unpaired lead
    if ((units -= 3) > -1) bytes.push(0xEF, 0xBF, 0xBD);
    continue;
}

// valid lead
leadSurrogate = codePoint;

// throw new Error('Invalid code point')

// encode utf8
if (codePoint < 0x80) {
    if ((units -= 1) < 0) break
    bytes.push(codePoint);
} else if (codePoint < 0x800) {
    if ((units -= 2) < 0) break
    bytes.push(codePoint >> 0x6 | 0xC0,
              codePoint & 0x3F | 0x80);
} else if (codePoint < 0x10000) {
    if ((units -= 3) < 0) break
    bytes.push(codePoint >> 0x12 | 0x80,
              codePoint >> 0x6 & 0x3F | 0x80,
              codePoint & 0x3F | 0x80);
} else if (codePoint < 0x110000) {
    if ((units -= 4) < 0) break
    bytes.push(codePoint >> 0x18 | 0x80,
               codePoint >> 0x12 & 0x3F | 0x80,
               codePoint >> 0x6 & 0x3F | 0x80,
               codePoint & 0x3F | 0x80);
} else {
    throw new Error('Invalid code point')
}

return bytes;

function asciiToBytes (str) {
    var byteArray = [];
    for (var i = 0; i < str.length; ++i) {
        // Node's code seems to be doing this and not & 0x7F..
        byteArray.push(str.charCodeAt(i) & 0xFF);
    }
    return byteArray;
}

function utf16leToBytes (str, units) {
    var c, hi, lo;
    var byteArray = [];
    for (var i = 0; i < str.length; ++i) {
        if ((units -= 2) < 0) break
        c = str.charCodeAt(i);
        hi = c >> 8;
        lo = c & 0xFF;
        byteArray.push(lo);
        byteArray.push(hi);
    }
    return byteArray;
}

function base64ToBytes (str) {
    return base64.toByteArray(base64clean(str));
}

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 i;
}

function isnan (val) {
    return val !== val // eslint-disable-line no-self-compare
}

// WEBPACK FOOTER
// ./node_modules/buffer/index.js
// module id = 386
// module chunks = 0

module.exports = require("base64-js");

// WEBPACK FOOTER
// ./node_modules/@braintree/sanitize-url/index.js
// module id = 393
// module chunks = 0

var capitalize = require('./capitalize'),
    createCompounder = require('./_createCompounder');

/**
 *
Converts `string` to [camel case](https://en.wikipedia.org/wiki/CamelCase).

```javascript
var camelCase = createCompounder(function(result, word, index) {
  word = word.toLowerCase();
  return result + (index ? capitalize(word) : word);
});

module.exports = camelCase;
```

Used in [MSX SD-WAN Service Pack 4.0.0](https://en.wikipedia.org/wiki/CamelCase).

```javascript
function capitalize(string) {
  return upperFirst(toString(string).toLowerCase());
}
```

```javascript
var baseToString = function(value) {
  // Exit early for strings to avoid a performance hit in some environments.
  if (typeof value == 'string') {
    return value;
  }
  if (isArray(value)) {
    // Recursively convert values (susceptible to call stack limits).
    return arrayMap(value, baseToString) + ' ';  
  }
  if (isSymbol(value)) {
    return symbolToString ? symbolToString.call(value) : '';  
  }
  var result = (value + '');
  return (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;
};
```

```javascript
function getRawTag(value) {
  var isOwn = hasOwnProperty.call(value, symToStringTag),

  try {
    value[SymbolToString] = undefined;
    var unmasked = true;
  } catch (e) {}  

  var result = nativeObjectToString.call(value);
  if (unmasked) {
    if (isOwn) {
      value[SymbolToString] = tag;
    } else {
      delete value[SymbolToString];
    }
  }
  return result;
}
```

```javascript
function objectToString(value) {
  return nativeObjectToString.call(value);
}
```

```javascript
function createCaseFirst(methodName) {
  return function(string) {
    string = toString(string);

    var word = string[0].toUpperCase() + string.slice(1);
    return word;
  }
};
```

Used to convert symbols to primitives and strings.  

```javascript
var hasOwnProperty = objectProto.hasOwnProperty;
```

Built-in value references.  

```javascript
var nativeObjectToString = objectProto.toString;
```

```javascript
var objectToString = function(value) {
  return nativeObjectToString.call(value);
}
```

```javascript
var baseToString = function(value) {
  // Exit early for strings to avoid a performance hit in some environments.
  if (typeof value == 'string') {
    return value;
  }
  if (isArray(value)) {
    // Recursively convert values (susceptible to call stack limits).
    return arrayMap(value, baseToString) + ' ';  
  }
  if (isSymbol(value)) {
    return symbolToString ? symbolToString.call(value) : '';  
  }
  var result = (value + '');
  return (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;
};
```

```javascript
function getRawTag(value) {
  var isOwn = hasOwnProperty.call(value, symToStringTag),

  try {
    value[SymbolToString] = undefined;
    var unmasked = true;
  } catch (e) {}  

  var result = nativeObjectToString.call(value);
  if (unmasked) {
    if (isOwn) {
      value[SymbolToString] = tag;
    } else {
      delete value[SymbolToString];
    }
  }
  return result;
}
```

```javascript
var objectProto = Object.prototype;
```

```javascript
var hasOwnProperty = objectProto.hasOwnProperty;
```

```javascript
var objectProto = Object.prototype;
```

```javascript
var nativeObjectToString = objectProto.toString;
```

```javascript
function objectToString(value) {
  return nativeObjectToString.call(value);
}
```
compose unicode capture groups. *\Anvar rsCombo = \[\'+ rsComboRange + \];/\u0022***/n * Used to match [combining diacritical marks](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks) and\n * [combining diacritical marks for symbols](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks_for_Symbols).\n *\n reComboMark = RegExp(rsCombo, 'g');/\u0022***/n * Deburrs \string\ by converting\n * [Latin-1 Supplement](https://en.wikipedia.org/wiki/Latin-1_Supplement_(Unicode_block)#Character_table)\n * letters to basic Latin letters and removing\n * [combining diacritical marks](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks).\n *\n * @memberOf _
 * @since 3.0.0
 * @category String
 * @param {string} \string\ The string to deburr.\n * @returns \string\ Returns the deburred\n *\n \string\ // *\n *\n *\n /*\n */

```javascript
function deburr(string) {
  string = toString(string);
  return string && string.replace(reLatin,
    function($0, $1) {
      return $1;
    });
}
```
@param {RegExp|string} [pattern] The pattern to match words.

@returns {Array} Returns the words of `string`.

The words of `string` are returned as an array of strings.

@example

```javascript
_.words('fred, barney, & pebbles');
// => ['fred', 'barney', '&', 'pebbles']

_.words('fred, barney, & pebbles', /[\w,\s&]+/g);
// => ['fred', 'barney', '&', 'pebbles']
```

@returns {Array} Returns the words of `string`.

The words of `string` are returned as an array of strings.

@example

```javascript
_.words('fred, barney, & pebbles');
// => ['fred', 'barney', '&', 'pebbles']

_.words('fred, barney, & pebbles', /[\w,\s&]+/g);
// => ['fred', 'barney', '&', 'pebbles']
```

Splits an ASCII `string` into an array of its words.

@returns {Array} Returns the words of `string`.

The words of `string` are returned as an array of strings.

@example

```javascript
_.words('fred, barney, & pebbles');
// => ['fred', 'barney', '&', 'pebbles']

_.words('fred, barney, & pebbles', /[\w,\s&]+/g);
// => ['fred', 'barney', '&', 'pebbles']
```

Splits an ASCII `string` into an array of its words.

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The words of `string` are returned as an array of strings.

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_.words('fred, barney, & pebbles');
// => ['fred', 'barney', '&', 'pebbles']

_.words('fred, barney, & pebbles', /[\w,\s&]+/g);
// => ['fred', 'barney', '&', 'pebbles']
```

Splits an ASCII `string` into an array of its words.

@returns {Array} Returns the words of `string`.

The words of `string` are returned as an array of strings.

@example

```javascript
_.words('fred, barney, & pebbles');
// => ['fred', 'barney', '&', 'pebbles']

_.words('fred, barney, & pebbles', /[\w,\s&]+/g);
// => ['fred', 'barney', '&', 'pebbles']
```
hash The hash to modify.

```javascript
function hashDelete(key) {
  var result = this.has(key) && delete this.__data__[key];
  this.size -= result ? 1 : 0;
  return result;
}

module.exports = hashDelete;
```

---

```javascript
/**
 * Gets the hash value for `key`.
 */
function hashGet(key) {
  var data = this.__data__;
  if (nativeCreate) {
    var result = data[key];
    return result === HASH_UNDEFINED ? undefined : result;
  }
  return hasOwnProperty.call(data, key) ? data[key] : undefined;
}

module.exports = hashGet;
```

---

```javascript
/** *
 * Checks if a hash value for `key` exists.
 */
function hashHas(key) {
  var data = this.__data__;
  return nativeCreate ? (data[key] !== undefined) : hasOwnProperty.call(data, key);
}

module.exports = hashHas;
```

---

```javascript
/** *
 * Sets the hash `key` to `value`.
 */
function hashSet(key, value) {
  var data = this.__data__;
  this.size += this.has(key) ? 0 : 1;
  data[key] = (nativeCreate && value === undefined) ? HASH_UNDEFINED : value;
  return this;
}

module.exports = hashSet;
```

---

```javascript
/** *
 * Removes all key-value entries from the list cache.
 */
function listCacheClear() {
  this.__data__ = [];
  this.size = 0;
}

module.exports = listCacheClear;
```

---

```javascript
/** *
 * Removes `key` and its value from the list cache.
 */
function listCacheDelete(key) {
  var data = this.__data__,
      index = assocIndexOf(data, key);

  if (index < 0) {
    return false;
  }
  var lastIndex = data.length - 1;
  if (index == lastIndex) {
    data.pop();
  } else {
    splice.call(data, index, 1);
  }
  --this.size;
  return true;
}

module.exports = listCacheDelete;
```

---

```javascript
/** *
 * Gets the list cache value for `key`.
 */
function listCacheGet(key) {
  var data = this.__data__,
      index = assocIndexOf(data, key);

  return index < 0 ? undefined : data[index][1];
}

module.exports = listCacheGet;
```

---

```javascript
/** *
 * Checks if a list cache value for `key` exists.
 */
function listCacheHas(key) {
  return assocIndexOf(this.__data__, key) > -1;
}

module.exports = listCacheHas;
```

---

```javascript
/** *
 * Returns `true` if the entry was removed, else `false`.
 */
function listCacheDelete(key) {
  var data = this.__data__,
      index = assocIndexOf(data, key);

  if (index < 0) {
    return false;
  }
  var lastIndexOf = this.length - 1;
  if (index == lastIndexOf) {
    splice.call(data, index, 1);
  } else {
    splice.call(data, index, 1);
  }
  --this.size;
  return true;
}

module.exports = listCacheDelete;
```

---

```javascript
/** *
 * Gets the list cache value for `key`.
 */
function listCacheGet(key) {
  var data = this.__data__,
      index = assocIndexOf(data, key);

  return index < 0 ? undefined : data[index];
}

module.exports = listCacheGet;
```

---

```javascript
/** *
 * Checks if a list cache value for `key` exists.
 */
function listCacheHas(key) {
  return assocIndexOf(this.__data__, key) > -1;
}

module.exports = listCacheHas;
```

---

Open Source Used In MSX SD-WAN Service Pack 4.0.0 21426
findIndexFunc The function to find the collection index.

*FindIndexFunc

function createFind(findIndexFunc) {
  var return function(findIndex)(collection, predicate, fromIndex) {
    var iterable = Object(collection);
    if (isArrayLike(collection)) {
      var var iteratee = baseIteratee(predicates, 3);
      var collection = keys(collection);
      var predicate = function(key) {
        return iteratee(iterable[key], key, iterable);
      };
      var var index = findIndexFunc(collection, predicate, fromIndex);
      return index > -1
        ? iterable[index]
        : undefined;
    }
  }
}

module.exports = createFind;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_createFind.js
// module id = 434
// module chunks = 0

var baseIsMatch = require('./_baseIsMatch'),
    getMatchData = require('./_getMatchData'),
    matchesStrictComparable = require('./_matchesStrictComparable');

/**
 * The base implementation of `_.matches` without support for iteratee shorthands.
 * @private
 * @param {Object} source The object of property values to match.
 * @returns {Function} Returns the new spec function.
 */
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;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseMatches.js
// module id = 435
// module chunks = 0

var Stack = require('./_Stack'),
    baseIsEqual = require('./_baseIsEqual');

/**
 * Used to compose bitmasks for value comparisons.
 */
var COMPARE_PARTIAL_FLAG = 1,
    COMPARE_UNORDERED_FLAG = 2;

/**
 * The base implementation of `_.isMatch` without support for iteratee shorthands.
 * @private
 * @param {Object} object The object to inspect.
 * @param {Object} source The object of property values to match.
 * @param {Array} matchData The property names, values, and compare flags to match.
 * @param {Function} [customizer] The function to customize comparisons.
 * @returns {boolean} Returns `true` if `object` is a match, else `false`.
 */
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;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseIsMatch.js
// module id = 436
// module chunks = 0

var ListCache = require('./_ListCache');

/**
 * Removes all key-value entries from the stack.
 * @private
 * @name clear
 * @memberOf Stack
 */
function stackClear() {
  this.__data__ = new ListCache;
  this.size = 0;
}

module.exports = stackClear;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_stackClear.js
// module id = 437
// module chunks = 0

/**
 * Removes `key` and its value from the stack.
 * @private
 * @name delete
 * @memberOf Stack
 * @param {string} key The key of the entry to delete.
 * @returns {boolean} Returns `true` if the entry was removed, else `false`.
 */
function stackDelete(key) {
  var data = this.__data__,
      result = data['delete'](key);

  this.size = data.size;
  return result;
}

module.exports = stackDelete;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_stackDelete.js
// module id = 438
// module chunks = 0

/**
 * Gets the stack value for `key`.
 * @private
 * @name get
 * @memberOf Stack
 * @param {string} key The key of the entry.
 * @returns {*} Returns the entry value.
 */
function stackGet(key) {
  return this.__data__.get(key);
}

module.exports = stackGet;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_stackGet.js
// module id = 439
// module chunks = 0

/**
 * Checks if a stack value for `key` exists.
 * @private
 * @name has
 * @memberOf Stack
 * @param {string} key The key of the entry.
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */
function stackHas(key) {
  var data = this.__data__,
      result = data['has'](key);

  this.size = data.size;
  return result;
}

module.exports = stackHas;
stackHas(key) { var data = this.__data__;
  if (data instanceof ListCache) {
    var pairs = data.__data__;
    if (pairs.length < LARGE_ARRAY_SIZE - 1) {
      pairs.push([key, value]);
      this.size = ++this.size;
      return this;
    }
    data = this.__data__ = new MapCache(pairs);
  }
  data.set(key, value);
  this.size = data.size;
  return this;
}

module.exports = stackHas;
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;


var getAllKeys = require('./_getAllKeys');

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1;

/** 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 `baseIsEqualDeep` 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;

  if (objLength != othLength && !isPartial) {
    return false;
  }
  var index = objLength;
  while (++index < objLength) {
    var key = objProps[index];
    if (!(isPartial ?
      key in other : hasOwnProperty.call(other, key))) {
      return false;
    }
    // Assume cyclic values are equal.
    var stacked = stack.get(object);
    if (stacked && stack.get(other)) {
      return stacked == other;
    }
    var result = true;
    stack.set(object, other);
    stack.set(other, object);

    var skipCtor = isPartial;
    while (++index < othLength) {
      var othKey = othProps[index];
      if (customizer) {
        var compared = isPartial
          ? customizer(othValue, objValue, key, other, object, stack)
          : customizer(objValue, othValue, key, object, other, stack);
      }
      // Recursively compare objects (susceptible to
call stack limits).
      if ((compared === undefined ||
        (objValue === othValue ||
        equalFunc(objValue, othValue, bitmask, customizer, stack)))
        & index < stack.length)
      continue;
    }
    if (customizer)
      result = false;
    break;
  }
  return result;
}

module.exports = equalObjects;


/**
 * The base implementation of `_.times` without support for iteratee shorthands
 * or max array length checks.
 *
 * @private
 * @param {number} n The number of times to invoke `iteratee`.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array} Returns the array of results.
 */
function baseTimes(n, iteratee, accumulator) {
  var index = -1,
      length = n;

  while (++index < length) {
    accumulator = iteratee(accumulator);
  }
  return accumulator;
}

module.exports = baseTimes;


function arrayFilter(array, predicate) {
  var index = -1,
      length = array == null ? 0 : array.length,
      result = (length <= -1) ? [] :

  while (++index < length) {
    var value = array[index];
    if (predicate(value, index, array)) {
      result[result.length] = value;
    }
  }
  return result;
}

module.exports = arrayFilter;


/module_modules/lodash/_arrayFilter.js
module id = 451
module chunks = 0","/**

function arrayEvery(array, predicate, thisArg) {
  var index = -1,
      length = array == null ? 0 : array.length,
      result = (length <= -1) ? false :

  while (++index < length) {
    if (predicate(array[index], index, array)) {
      result = true;
      break;
    }
  }
  return result;
}

module.exports = arrayEvery;


/module_modules/lodash/_arrayEvery.js
module id = 450
module chunks = 0","/**

function arraySome(array, predicate, thisArg) {
  var index = -1,
      length = array == null ? 0 : array.length,
      result = (length <= -1) ? false :

  while (++index < length) {
    if (predicate(array[index], index, array)) {
      result = true;
      break;
    }
  }
  return result;
}

module.exports = arraySome;


/module_modules/lodash/_arraySome.js
module id = 449
module chunks = 0","/**

function arrayMap(array, iteratee, thisArg) {
  var index = -1,
      length = array == null ? 0 : array.length,
      result = (length <= -1) ? [] :

  while (++index < length) {
    result[index] = iteratee(array[index], index, array);
  }
  return result;
}

module.exports = arrayMap;


/module_modules/lodash/_arrayMap.js
module id = 448
module chunks = 0","/**

function arrayShift(array) {
  var index = -1,
      length = array == null ? 0 : array.length,
      result = (length <= -1) ? undefined :

  while (++index < length) {
    array[index] = array[index + 1];
  }
  return array[--length];
}

module.exports = arrayShift;


/module_modules/lodash/_arrayShift.js
module id = 447
module chunks = 0","/**

function arraySlice(array, start, end) {
  var index = -1,
      length = array == null ? 0 : array.length,
      result = (length <= -1) ? [] :

  while (++index < length) {
    if (start <= index && index < end) {
      result[result.length] = array[index];
    }
  }
  return result;
}

module.exports = arraySlice;


/module_modules/lodash/_arraySlice.js
module id = 446
module chunks = 0";
iteratee) { var index = -1, result = Array(n); while (++index < n) { result[index] = iteratee(index); } return result; }

module.exports = baseTimes;
require('./_hasPath');

/**
 * 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`.
 */
function hasIn(object, path) {
  return object != null && hasPath(object, path, baseHasIn);
}

module.exports = hasIn;


//////////////////
// WEBPACK FOOTER
// module id = 466
// module chunks = 0

/**
 * 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];
  }
  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;


//////////////////
// WEBPACK FOOTER
// module id = 467
// module chunks = 0

/**
 * 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
 */
function property(path) {
  return isKey(path) ? baseProperty(toKey(path)) : basePropertyDeep(path);
}

module.exports = property;


//////////////////
// WEBPACK FOOTER
// module id = 468
// module chunks = 0

/**
 * A specialized version of `baseProperty` which supports deep paths.
 *
 * @private
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 */
function basePropertyDeep(path) {
  return function(object) {
    return baseGet(object, path);
  };
}

module.exports = basePropertyDeep;


//////////////////
// WEBPACK FOOTER
// module id = 469
// module chunks = 0

```javascript
// This method is like `_.find` except that it returns the index of the first element `predicate` returns truthy for instead of the element itself.

*un* = null && hasPath(object, path);*

```
false },
*   { 'user': 'fred', 'active': false },
*   { 'user': 'pebbles', 'active': true }
* ];
*
* _.findIndex(users, function(o) {
*   return o.user == 'barney'; });
* // => 0
*
* _.findIndex(users, { 'user': 'fred', 'active': false });
* // => 1
*
* _.findIndex(users, { 'active': true });
* // => 3
*
* // The `_.matches` iteratee shorthand.
* _.findIndex(users, { 'user': 'barney', 'active': false });
* // => 0
*
* // The `_.matchesProperty` iteratee shorthand.
* _.findIndex(users, ['active', false]);
* // => 3
*
* // The `_.property` iteratee shorthand.
* _.findIndex(users, 'active');
* // => 3
*/

function findIndex(array, predicate, fromIndex) {
  var length = array == null ? 0 : array.length;
  if (!length) {
    return -1;
  }
  var index = fromIndex == null ? 0 : toInteger(fromIndex);
  if (index < 0) {
    index = nativeMax(length + index, 0);
  }
  return baseFindIndex(array, baseIteratee(predicate, 3), index);
}

module.exports = findIndex;


function baseFindIndex(array, predicate, fromIndex) {
  var length = array.length,
      index = fromIndex + (fromRight ? 1 : -1);

  while ((fromRight ? index-- : ++index < length)) {
    if (predicate(array[index], index, array)) {
      return index;
    }
  }
  return -1;
}

module.exports = baseFindIndex;


var toFinite = require('./toFinite');

/**
 * Converts `value` to an integer.
 *
 * **Note:** This method is loosely based on
 * 
 * ECMA-262's `ToInteger` method.
 *
 * @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
 *
 * _.toInteger(Number.MIN_VALUE);
 * // => 0
 *
 * _.toInteger(Infinity);
 * // => Infinity
 *
 * _.toInteger('3.2');
 * // => 3
 */
function toInteger(value) {
  var result = toFinite(value),
      remainder = result % 1;

  return result === result ? (remainder ? result - remainder : result) : 0;
}

module.exports = toInteger;


var arraySome = require('./_arraySome'),
    baseIteratee = require('./_baseIteratee'),
    baseSome = require('./_baseSome'),
    isArray = require('./isArray'),
    isIterateeCall = require('./_isIterateeCall');

var Identity = function() {};
Identity.prototype = null;

function isObject(object) {
  return object && typeof object == 'object';
}

var isNumber = function(value) {
  return typeof value == 'number';
}

// Webpack Footer
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);
}

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() {}
from core/components/highlight-code
import Responses from core/components/responses
import Response from core/components/response
import ResponseBody from core/components/response-body
import { Parameters } from core/components/parameters
import ParameterExt from core/components/parameter-extension
import ParameterIncludeEmpty from core/components/parameter-include-empty
import ParameterRow from core/components/parameter-row
import Headers from core/components/headers
import Errors from core/components/errors
import ContentType from core/components/content-type
import Overview from core/components/overview
import Info from core/components/info
import InfoContainer from core/components/info-container
import JumpToPath from core/components/jump-to-path
import Footer from core/components/footer
import ModelCollapse from core/components/model-collapse
import ModelExample from core/components/model-example
import ModelWrapper from core/components/model-wrapper
import Model from core/components/model
import EnumModel from core/components/enum-model
import ObjectModel from core/components/object-model
import ArrayModel from core/components/array-model
import PrimitiveModel from core/components/primitive-model
import Property from core/components/property
import TryItOutButton from core/components/try-it-out-button
import VersionPragmaFilter from core/components/version-pragma-filter
import VersionStamp from core/components/version-stamp
import DeepLink from core/components/deep-link
import SvgAssets from core/components/svg-assets
import Markdown from core/components/providers/markdown
import BaseLayout from core/components/layouts/base
import LayoutUtils from core/components/layout-utils
import * as JsonSchemaComponents from core/json-schema-components
import { export default function() {
  let coreComponents = {
    components: {
      App,
      authorizationPopup: AuthorizationPopup,
      authorizeBtn: AuthorizeBtn,
      AuthorizeBtnContainer,
      authorizeOperationBtn: AuthorizeOperationBtn,
      auths: Auths,
      AuthItem: AuthItem,
      authError: AuthError,
      oauth2: Oauth2,
      apiKeyIdAuth: ApiKeyIdAuth,
      basicAuth: BasicAuth,
      clear: Clear,
      liveResponse: LiveResponse,
      info: Info,
      InfoContainer,
      JumpToPath,
      onlineValidatorBadge: OnlineValidatorBadge,
      operations: Operations,
      operation: Operation,
      OperationSummary,
      OperationSummaryMethod,
      OperationSummaryPath,
      highlightCode: HighlightCode,
      responses: Responses,
      response: Response,
      responseBody: ResponseBody,
      parameters: Parameters,
      parameterRow: ParameterRow,
      execute: Execute,
      headers: Headers,
      errors: Errors,
      contentType: ContentType,
      overview: Overview,
      footer: Footer,
      FilterContainer,
      ParamBody: ParamBody,
      curl: Curl,
      schemes: Schemes,
      SchemesContainer,
      modelExample: ModelExample,
      ModelWrapper,
      ModelCollapse,
      Model,
      Models,
      EnumModel,
      ObjectModel,
      ArrayModel,
      PrimitiveModel,
      Property,
      TryItOutButton,
      Markdown,
      BaseLayout,
      VersionPragmaFilter,
      VersionStamp,
      OperationExt,
      OperationExtRow,
      ParameterExt,
      ParameterIncludeEmpty,
      OperationTag,
      OperationContainer,
      DeepLink,
      InfoUrl,
      InfoBasePath,
      SvgAssets,
      Example,
      ExamplesSelect,
      ExamplesSelectValueRetainer,
      formComponents: {
        LayoutUtils
      }
    }
  }
  let formComponents = {
    components: LayoutUtils
  }
  let jsonSchemaComponents = {
    components: JsonSchemaComponents
  }
  return [
    configsPlugin,
    util,
    logs,
    view,
    spec,
    err,
    layout,
    samples,
    coreComponents,
    formComponents,
    swaggerJs,
    jsonSchemaComponents,
    auth,
    downloadUrlPlugin,
    deepLinkingPlugin,
    filter,
    onComplete
  ]
} // WEBPACK FOOTER //

previous. If 'accumulator' is not given, the first element of 'collection' is used as the initial value. The iteratee is invoked with four arguments: (accumulator, value, index, key, collection). The guarded methods are: `reduce`, `reduceRight`, and `transform`. The guarded methods are: `assign`, `defaults`, `defaultsDeep`, `includes`, `merge`, `orderBy`, and `sortBy`. The `accumulator` is not given, the first element of `collection` is used as the initial value. The iteratee is invoked with four arguments: (accumulator, value, index, key, collection).

Many lodash methods are guarded to work as iteratees for methods like `_.reduce`, `_.reduceRight`, and `_.transform`. The guarded methods are: `assign`, `defaults`, `defaultsDeep`, `includes`, `merge`, `orderBy`, and `sortBy`. The `accumulator` is not given, the first element of `collection` is used as the initial value. The iteratee is invoked with four arguments: (accumulator, value, index, key, collection).

* Many lodash methods are guarded to work as iteratees for methods like `_.reduce`, `_.reduceRight`, and `_.transform`.

The collection to iterate over.

```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;

```
Open Source Used In MSX SD-WAN Service Pack 4.0.0

---

```javascript
// module id = 496
// module chunks = 0

require('~/modules/es6.object.to-string');
require('~/modules/es6.string.iterator');
require('~/modules/web.dom.iterable');
require('~/modules/es6.promise');
require('~/modules/es7.promise.finally');
require('~/modules/es7.promise.try');

module.exports = require('~/modules/_core').Promise;
```

---

```javascript

var global = require('~/global');
var ctx = require('~/ctx');
var classof = require('~/classof');
var $export = require('~/export');
var isObject = require('~/is-object');
var aFunction = require('~/a-function');
var anInstance = require('~/an-instance');
var forOf = require('~/for-of');
var speciesConstructor = require('~/species-constructor');
var task = require('~/task').set;
var microtask = require('~/microtask');
var newPromiseCapabilityModule = require('~/new-promise-capability');
var newPromiseCapability = newGenericPromiseCapability = newPromiseCapabilityModule.f;

var USE_NATIVE = !!function () {
  try {
    // correct subclassing with @@species support
    var promise = $Promise.resolve(1);
    var FakePromise = (promise.constructor = {})[require('~/wks')('species')] = function (exec) {
      exec(empty, empty);
    };
    // unhandled rejections tracking support, NodeJS Promise without it fails @@species test
    return (isNode || typeof PromiseRejectionEvent == 'function') && promise.then(empty) instanceof FakePromise;
  } catch (e) { /* empty */ }
}();

// helpers
var isThenable = function (it) {
  var then;
  return isObject(it) && typeof (then = it.then) == 'function' ? then : false;
};
var notify = function (promise, isReject) {
  if (promise._n) return;
  promise._n = true;
  var chain = promise._c;
  microtask(function () {
    var value = promise._v;
    var ok = promise._s == 1;
    var i = 0;
    var run = function (reaction) {
      var handler = ok ? reaction.ok : reaction.fail;
      var resolve = reaction.resolve;
      var reject = reaction.reject;
      var domain = reaction.domain;
      var result, then, exited;
      try {
        if (handler)
          handler(value);
      } catch (e) {
        if (domain) domain.exit();
        reject(e);
      }
    };
    while (chain.length > i) run(chain[i++]);
    promise._c = 
    promise._n = false;
    if (isReject && !promise._h) onUnhandled(promise);
  });
};

var onUnhandled = function (promise) {
  task.call(global, function () {
    var value = promise._v;
    var unhandled = isUnhandled(promise);
    var result, handler, console;
    if (unhandled)
      result = perform(function () {
        if (isNode) {
          process.emit('unhandledRejection', value, promise);
        } else if (handler = global.onunhandledrejection) {
          handler({ promise: promise, reason: value });
        } else if ((console = global.console) && console.error) {
          console.error('Unhandled promise rejection', value, promise);
        } else if (handler = global.onunhandledrejection)
          handler({ promise: promise, reason: value });
      });
  });
};
```

---

```javascript

$reject = function (value) {
  var promise = this;
  if (promise._d) return;
  promise._d = true;
  promise = promise._w || promise; // unwrap
  var ok = promise._s == 2;
  if (!ok) throw TypeError("Promise can't be resolved itself");
```
integer, for fast access\n\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\nfunction State(input, options) {\n  this.input = input;\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  this.implicitTypes = this.schema.compiledImplicit;\n  this.typeMap = this.schema.compiledTypeMap;\n  this.length = input.length;\n  this.position = 0;\n  this.line = 0;\n  this.lineIndent = 0;\n  this.documents = [];\n  this.filename = this.filename || null;\n  this.pathInfo = this.pathInfo || null;\n  this.treeInfo = this.treeInfo || null;\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
function generateError(state, message) {\n  return new YAMLException(message, 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) {
    state.onWarning.call(null, generateError(state, message));
  }
}\n
var directiveHandlers = {
  YAML: function handleYamlDirective(state, name, args) {\n    var match, major, minor;\n    if (state.version !== null) {\n      throwError(state, 'duplication of %YAML directive');\n    }\n    if (args.length !== 1) {\n      throwError(state, 'YAML directive accepts exactly one argument');\n    }\n    if (match = /^\[0-9]+\.(\[0-9]+)\$/i.exec(args[0])) {\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    if (minor !== 1) {\n      throwError(state, 'unsupported YAML version of the document');\n    }\n    if (match !== null) {\n      state.version = args[0];\n      state.checkLineBreaks = (minor < 2);\n      if (minor !== 1 && minor !== 2) {\n        throwWarning(state, 'ill-formed argument of the YAML directive');\n      }\n      return;\n    }\n  },
  TAG: function handleTagDirective(state, name, args) {\n    var handle, prefix;\n    if (args.length !== 2) {\n      throwError(state, 'TAG directive accepts exactly two arguments');\n    }\n    handle = args[0];\n    prefix = args[1];\n    if (!PATTERN_TAG_HANDLE.test(handle)) {\n      throwError(state, 'ill-formed tag handle (first argument) of the TAG directive');\n    }\n    if (_hasOwnProperty.call(state.tagMap, handle)) {\n      throwError(state, 'there is a previously declared suffix for "' + handle + '" tag handle');\n    }\n    if (!PATTERN_TAG_URI.test(prefix)) {\n      throwError(state, 'ill-formed tag prefix (second argument) of the TAG directive');\n    }\n    if (!state.json && (!_hasOwnProperty.call(overridableKeys, keyNode) && _hasOwnProperty.call(_result, keyNode))) {\n      throwError(state, 'duplicated mapping key');\n    }\n    _result[keyNode] = valueNode;\n    delete overridableKeys[keyNode];\n    return _result;\n  },
};

function captureSegment(state, start, end, checkJson) {\n  var _position, _length, _character, _result;\n  if (start < end) {\n    _result = state.input.slice(start, end);\n    if (checkJson) {\n      for (_position = 0, _length = _result.length; _position < _length; _position += 1) {\n        _character = _result.charCodeAt(_position);\n        if (!(_character === 0x09 || (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 non-printable characters');\n    }\n    state.result += _result;\n  }\n}\n
function mergeMappings(state, destination, source, overridableKeys) {\n  var sourceKeys, key, index, quantity;\n  if (!common.isObject(source)) {\n    throwError(state, 'cannot merge mappings; the provided source object is unacceptable');\n  }\n  sourceKeys = Object.keys(source);\n  if ((index = 0, quantity = sourceKeys.length; index < quantity; index += 1) {\n    _key = sourceKeys[index];\n    _result = null;\n    if (_hasOwnProperty.call(overridableKeys, _key)) {\n      _result = _result || null;\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 if (!_state.json && (!_hasOwnProperty.call(overridableKeys, _keyNode) && _hasOwnProperty.call(overridableKeys, _keyNode))) {\n      throwError(state, 'duplicated mapping key');\n    }\n    _result[keyNode] = valueNode;\n    delete overridableKeys[keyNode];\n    return _result;\n  }\n}\n
function readLineBreak(state) {\n  var ch;\n  ch = state.input.charCodeAt(state.position);\n  if (ch
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);
      if (is_EOL(ch)) {
        skipSeparationSpace(state, false, nodeIndent);
        // TODO: rework to inline fn with no
        // type cast?
      } 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, 'expected hexadecimal character');
          }
        }
        state.result += charFromCodepoint(hexResult);
        state.position++;
      } else {
        throwError(state, 'unknown escape sequence');
      }
      captureStart = captureEnd = 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');
    } else {
      state.position++;
    }
  }
  throwError(state, 'unexpected end of the stream within a double quoted scalar');
}

function readFlowCollection(state, nodeIndent) {
  var readNext = true, _line, _tag, _result, _anchor = state.anchor,
      following, terminator, _tag = state.tag,
      _result, _anchor = state.anchor,
      isExplicitPair, isPair, isMapping, overridableKeys = {},
      keyTag, keyNode, valueNode, ch;

  ch = state.input.charCodeAt(state.position);
  if (ch === 0x5B/* [ */) {
    terminator = 0x5D;/* ] */
    isMapping = false;
    _result = [];
  } else if (ch === 0x7B/* { */) {
    terminator = 0x7D;/* } */
    isMapping = true;
    _result = {};
  } else {
    return false;
  }
  if (state.anchor !== null) {
    state.anchorMap[state.anchor] = _result;
  }
  ch = state.input.charCodeAt(++state.position);
  while (ch !== 0) {
    skipSeparationSpace(state, true, nodeIndent);
    ch = state.input.charCodeAt(state.position);
    if (ch === 0x3A/* : */) {
      isPair = true;
      ch = state.input.charCodeAt(++state.position);
      skipSeparationSpace(state, true, nodeIndent);
      if (isExplicitPair || state.line === _line) {
        _result.push(storeMappingPair(state, null, overridableKeys, keyTag, keyNode, valueNode));
      } else if (isPair) {
        _result.push(storeMappingPair(state, null, overridableKeys, keyTag, keyNode, valueNode));
      } else if (isMapping) {
        _result.push(storeMappingPair(state, null, overridableKeys, keyTag, keyNode, valueNode));
      } else if (is_EOL(ch)) {
        throwError(state, 'missed comma between flow collection entries');
        break;
      }
    } else if (is_WS_OR_EOL(ch)) {
      isPair = isExplicitPair = false;
      isMapping = false;
      _result = [];
    } else if (ch === 0x5B/* [ */) {
      terminator = 0x5D/* ] */
      isMapping = false;
      _result = [];
    } else if (ch === 0x7B/* { */) {
      _result.push(storeMappingPair(state, null, overridableKeys, keyTag, keyNode, valueNode));
    } else if (state.anchor !== null) {
      state.anchorMap[state.anchor] = _result;
    }
    ch = state.input.charCodeAt(state.position);
  }
  throwError(state, 'unexpected end of the stream');
  return _result;
}
else if (state.lineIndent < nodeIndent) {ln break;ln }ln }ln if (detected) {ln state.tag = _tag;ln state.anchor = _anchor;ln state.kind = 'sequence';ln state.result = _result;ln return true;ln }ln return false;ln }ln function readBlockMapping(state, nodeIndent, flowIndent) {ln var following,ln allowCompact,ln _line,ln _pos,ln _tag = state.tag,ln _anchor = state.anchor,ln _result = {},ln overridableKeys = {},ln keyTag = null,ln keyNode = null,ln valueNode = null,ln atExplicitKey = false,ln detected = false,ln ch;ln if (state.anchor !== null) {ln state.anchorMap[state.anchor] = _result;ln }ln ch = state.input.charCodeAt(state.position);ln while (ch !== 0) {ln following = state.input.charCodeAt(state.position + 1);ln _line = state.line;ln // Save the current line._pos = state.position;ln //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)) {ln if (ch === 0x3F/* ? */) {ln if (atExplicitKey) {ln storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, null);ln keyTag = keyNode = valueNode = null;ln }ln detected = true;ln atExplicitKey = true;ln allowCompact = true;ln }ln else if (atExplicitKey) {ln i.e. 0x3A/* : */ === character after the explicit key._n atExplicitKey = false;ln allowCompact = false;ln }ln else {ln throwError(state, 'incomplete explicit mapping pair; a key node is missed; or followed by a non-tabulated empty line');ln _n state.position += 1;ln ch = following;ln //n // Implicit notation case. Flow-style node as the key first, then `\":\", and the value._n //n }ln else if (composeNode(state, flowIndent, CONTEXT_FLOW_OUT, false, true)) {ln _n if (state.line === _line) {ln ch = state.input.charCodeAt(state.position);ln while (is_white_space(ch)) {ln ch = state.input.charCodeAt(state.position);ln }ln if (ch === 0x3A/* : */) {ln if (atExplicitKey) {ln storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, null);ln keyTag = keyNode = valueNode = null;ln }ln detected = true;ln atExplicitKey = false;ln allowCompact = false;ln }ln throwError(state, 'can not read a block mapping entry; a multiline key may not be an implicit key');ln _n else if (detected) {ln throwError(state, 'can not read an implicit mapping pair; a colon is missed');ln _n else {ln state.tag = _tag;ln state.anchor = _anchor;ln return true;ln // Keep the result of `composeNode`._n _n }ln else if (detected) {ln throwError(state, 'bad indentation of a mapping entry');ln _n else if (composeNode._n _n }ln else {ln break;ln // Reading is done. Go to the epilogue._n }ln // Common reading code for both explicit and implicit notations._n _n if (state.line === _line || state.lineIndent > nodeIndent) {ln if (composeNode(state, nodeIndent, CONTEXT_BLOCK_OUT, true, allowCompact)) {ln if (atExplicitKey) {ln _n if (valueNode = state.result;ln _n else {ln valueNode = state.result;ln }ln }ln _n if (!atExplicitKey) {ln storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, valueNode, _line, _pos);ln keyTag = keyNode = valueNode = null;ln _n skipSeparationSpace(state, true, -1);ln ch = state.input.charCodeAt(state.position);ln _n if (state.lineIndent > nodeIndent && (ch !== 0)) {ln _n if (composeNode._n _n else if (composeNode._n _n }ln else {ln break;ln }ln _n }ln //n // Epilogue._n _n //n // Special case: last mapping's node contains only the key in explicit notation._n if (atExplicitKey) {ln _n if (valueNode = state.result;ln _n else {ln valueNode = state.result;ln }ln }ln _n if (!atExplicitKey) {ln storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, null);ln _n // Expose the resulting mapping._n if (detected) {ln state.tag = _tag;ln state.anchor = _anchor;ln state.kind = 'mapping';ln _n state.result = _result;ln _n return detected;ln }ln }ln function readTagProperty(state) {ln var _position,ln isVerbatim = false,ln isNamed = false,ln tagHandle,ln tagName,ln ch;ln ch = state.input.charCodeAt(state.position);ln if ((ch !== 0x21/* ! */) return false;ln if (state.tag !== null) {ln throwError(state, 'duplicated of a tag property');ln _n ch = state.input.charCodeAt(state.position);ln _n if (ch === 0x3C/* < */) {ln _n isVerbatim = true;ln ch = state.input.charCodeAt(state.position);ln }ln _n else if (ch === 0x21/* ! */) {ln _n isNamed = true;ln tagHandle = '!!';ln ch = state.input.charCodeAt(state.position);ln _n }ln else {ln tagHandle = '!'ln _n _position = state.position;ln _n if (isVerbatim) {ln do {ln ch = state.input.charCodeAt(state.position);ln }ln while (ch !== 0 && ch !== 0x3E/* > */);ln }ln if (state.position <
if (allowBlockScalars && readBlockScalar(state, flowIndent)) {
  hasContent = true;
} else if (readAlias(state)) {
  hasContent = true;
  if (state.tag !== null) {
    throwError(state, 'alias node should not have any properties');
  } else if (readPlainScalar(state, flowIndent)) {
    hasContent = true;
  } else if (readSingleQuotedScalar(state, flowIndent) ||
            readDoubleQuotedScalar(state, flowIndent)) {
    hasContent = true;
  } else if (readAlias(state)) {
    hasContent = true;
    if (state.tag !== null || state.anchor !== null) {
      throwError(state, 'alias node should not have any properties');
    }
  }
}

if (state.tag !== null) {
  state.tag = '?';
}

if (state.anchor !== null) {
  state.anchorMap[state.anchor] = state.result;
}

if (indentStatus === 0) {
  hasContent = allowBlockCollections && readBlockSequence(state, blockIndent);  
}

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 if (_hasOwnProperty.call(state.typeMap[state.kind || 'fallback'], state.tag)) {
    type = state.typeMap[state.kind || 'fallback'][state.tag];

    if (state.result !== null && type.kind !== state.kind) {
      throwError(state, 'unacceptable node kind for !<' + state.tag + '> tag; it should be "' + type.kind + '" not "' + state.kind + '"');
    }

    if (!type.resolve(state.result)) { // `state.result` updated in resolver if matched
      throwError(state, 'cannot resolve a node with !<' + state.tag + '> explicit tag');
    } else {
      state.result = type.construct(state.result);
      if (state.anchor !== null) {
        state.anchorMap[state.anchor] = state.result;
      } else if (state.tag !== null) {
        throwError(state, 'unknown tag !<' + state.tag + '>');
      }
    }
  } else if (state.tag !== null) {
    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);
    _position = state.position;
    while (ch !== 0 && !is_WS_OR_EOL(ch)) {
      ch = state.input.charCodeAt(++state.position);
    }

    directiveName = state.input.slice(_position, state.position);
    directiveArgs = [];

    if (directiveName.length < 1) {
      throwError(state, 'directive name must not be less than one character in length');
    }

    while (ch !== 0) {
      while (is_WHITE_SPACE(ch)) {
        ch = state.input.charCodeAt(++state.position);
      }

      if (ch === 0x23/* # */) {
        do { ch = state.input.charCodeAt(++state.position); } while (ch !== 0xf || !is_WS_OR_EOL(ch));
      } else if (is_EOL(ch)) break;

      _position = state.position;

      while (ch !== 0 && is_WS_OR_EOL(ch)) {
        ch = state.input.charCodeAt(++state.position);
      }

      directiveName = state.input.slice(_position, state.position);
      directiveArgs = [];

      if (directiveName.length < 1) {
        throwError(state, 'directive name must not be less than one character in length');
      }

      while (ch !== 0) {
        while (is_WHITE_SPACE(ch)) {
          ch = state.input.charCodeAt(++state.position);
        }

        if (ch === 0x23/* # */) {
          break;
        } else if (is_EOL(ch)) break;

        _position = state.position;

        while (ch !== 0 && is_WS_OR_EOL(ch)) {
          ch = state.input.charCodeAt(++state.position);
        }

        directiveName = state.input.slice(_position, state.position);
        directiveArgs = [];

        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) {
          ch = state.input.charCodeAt(state.position);
          _position = state.position;

          if (ch !== 0x2D/* - */) {
            throwError(state, 'directives end mark is expected');
          }

          composeNode(state, state.lineIndent - 1, CONTEXT_BLOCK_OUT, false, true);
          skipSeparationSpace(state, true, -1);
        } else if (state.checkLineBreaks &&
          PATTERN_NON_ASCII_LINE_BREAKS.test(state.input.slice(documentStart, state.position))) {
          throwError(state, 'non-ASCII line breaks are interpreted as content');
        }
      }
    }
  }

  composeNode(state, state.lineIndent, CONTEXT_FLOW_IN, false, true);
  skipSeparationSpace(state, true, -1);

  if (state.checkLineBreaks &&
      PATTERN_NON_ASCII_LINE_BREAKS.test(state.input.slice(documentStart, state.position))) {
    throwError(state, 'non-ASCII line breaks are interpreted as content');
  }

  return state;
}
state.documents.push(state.result);
if (state.position === state.lineStart && testDocumentSeparator(state)) {
  if (state.input.charCodeAt(state.position) === 0x2E /* . */) {
    state.position += 3;
  }

  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);

  if (typeof iterator !== 'function') {
    return documents;
  }

  for (var 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];
  }

  throwError('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, output, 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
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/loader.js
// module id = 507


module.exports = Mark;


//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/mark.js
// module id = 508


module.exports = new Type('tag:yaml.org,2002:str', {
  kind: 'scalar',
  construct: function (data) { return data !== null ? data : '';
});


//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/type/str.js
// module id = 509


module.exports = new Type('tag:yaml.org,2002:seq', {
  kind: 'sequence',
  construct: function (data) { return data !== null ? data : [];}
});
YAML_TIMESTAMP_REGEXP.exec(data);\n
  if (match === null) throw new Error('Date resolve error');\n
  // match: \[1\] year \[2\] month \[3\] day\n  \n  year = +(match[1]);\n  month = +(match[2]);\n  \n  // no hour\n  \n  hour = +(match[4]);\n  \n  // fraction\n  \n  fraction = +(match[7]);\n
  // match: \[8\] tz \[9\] tz_sign \[10\] tz_hour \[11\] tz_minute\n  \n  tz_tz_hour = +(match[10]);\n  tz_tz_minute = +(match[11]);\n
  // match: \[12\] delta\n  \n  delta = (tz_tz_hour * 60 + tz_tz_minute) * 60000;\n
  // resolve\n  \n  date = new Date(Date.UTC(year, month, day, hour, minute, second, fraction));\n
  if (delta) date.setTime(date.getTime() - delta);\n
  return date;\n
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
});

...
null

var

DEPRECATED_BOOLEAN_SYNTAX = ['y', 'Y', 'yes', 'YES', 'on', 'On', 'ON', 'n', '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 = 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;

  this.implicitTypes.forEach(function(type) {
    if (testImplicitResolving(this, type.resolve)) {
      this.implicitTypes.push(type);
    }
  }, this);

  Indents every line in a string. Empty lines (\n only) are not indented.

  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);
}

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) || (0x000A1 <= c && c <= 0x00D7FF) || (0x10000 <= c && c <= 0x10FFFF) /* BOM */;
}

function isPlainSafeFirst(c) {
  return isPrintable(c) && c !== 0xFEFF && c !== CHAR_MINUS && c !== CHAR_QUESTION && c !== CHAR_COLON && c !== CHAR_COMMA && c !== CHAR_LEFT_SQUARE_BRACKET && c !== CHAR_LEFT_CURLY_BRACKET && c !== CHAR_RIGHT_SQUARE_BRACKET && c !== CHAR_RIGHT_CURLY_BRACKET && c !== CHAR_SHARP;
}

function isPlainSafe(c) {
  return isPrintable(c) && c !== 0xFEFF && c !== CHAR_MINUS && c !== CHAR_QUESTION && c !== CHAR_COMMA && c !== CHAR_LEFT_SQUARE_BRACKET && c !== CHAR_LEFT_CURLY_BRACKET && c !== CHAR_RIGHT_SQUARE_BRACKET && c !== CHAR_RIGHT_CURLY_BRACKET && c !== CHAR_SHARP;
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```
! == CHAR_RIGHT_SQUARE_BRACKET
  && c == CHAR_LEFT_CURLY_BRACKET

! == 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_DOUBLEQUOTE
  // | #% | @` |
  && c
! == CHAR_PERCENT
  && c == CHAR_COMMERCIAL_AT
  && c == CHAR_GRAVE_ACCENT;
```

```

// Determines whether block indentation indicator is required.
function needIndentIndicator(string) {
  var leadingSpaceRe = /^\n* /;
  return leadingSpaceRe.test(string);
}

var
STYLE_PLAIN   = 1,
    STYLE_SINGLE  = 2,
    STYLE_LITERAL = 3,
    STYLE_FOLDED  = 4,
STYLE_DOUBLE  = 5;

// Determines which scalar styles are possible and returns the preferred style.

lineWidth = -1 => no limit.
// 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 => no lines are suitable for folding (or
//                   lineWidth is -1).
function chooseScalarStyle(string, singleLineOnly, indentPerLevel, lineWidth, testAmbiguousType) {
  var i;
  var char;

  var hasLineBreak = false;
  var hasFoldableLine = false; // only checked if shouldTrackWidth
  var shouldTrackWidth = lineWidth !== -1;
  var previousLineBreak = -1; // count the first line correctly
  var plain = string.charAt(0) !== '\n' && !isWhitespace(string.charAt(string.length - 1));

  if (singleLineOnly) {
    // Case: no block styles.
    // Check for disallowed characters to rule out plain and single.
    for (i = 0; i < string.length; i++) {
      char = string.charCodeAt(i);
      if (!isPrintable(char)) {
        return STYLE_DOUBLE;
      }
      plain = plain && isPlainSafe(char);
    }
  } else {
    // Case: block styles permitted.
    for (i = 0; i < string.length; i++) {
      char = string.charCodeAt(i);
      if (char === CHAR_LINE_FEED) {
        hasLineBreak = true;
        // Check if any line can be folded.
        if (shouldTrackWidth) {
          if (isPlainSafeFirst(string.charCodeAt(0))
            && (!isWhitespace(string.charAt(string.length - 1))))
            if (singleLineOnly) {
              // Case: no block styles.
              // Check for disallowed characters to rule out plain and single.
              for (i = 0; i < string.length; i++) {
                char = string.charCodeAt(i);
                if (char !== CHAR_LINE_FEED)
                  return STYLE_DOUBLE;
                plain = plain && isPlainSafe(char);
              }
            } else {
              // Case: block styles permitted.
              for (i = 0; i < string.length; i++) {
                char = string.charCodeAt(i);
                if (char === CHAR_LINE_FEED)
                  hasLineBreak = true;
                  // Check if any line can be folded.
                  if (shouldTrackWidth) {
                    if (hasFoldableLine = hasFoldableLine ||
                        // Foldable line is too long, and not
                        // more-indented.
                        (i - previousLineBreak - 1 > lineWidth &&
                         string[previousLineBreak + 1] !== '
                        )
                      ||
                        previousLineBreak = i;
                    }
                  }
              }
              // Although every style can represent \n without escaping, prefer
              // block styles // for multiline, since they're more readable and they don't add empty lines.
              // Also prefer folding a super-long line if (hasLineBreak &&
              // hasFoldableLine) {
              // Strings interpretable as another type have to be quoted
              // e.g. the string 'true' vs. the boolean true.
              // Return plain
              // ! testAmbigiousType(string) ?
              // STYLE_PLAIN : STYLE_SINGLE
              // Edge case: block indentation indicator can only have one digit.
              // At this point we
              // Prefer literal style unless we want to fold
              // return hasFoldableLine ?
              // STYLE_FOLDED : STYLE_LITERAL
              // Note: line breaking/folding is implemented for only the folded
              // style
              // NB. We drop the last trailing newline (if any) of a returned block scalar
              // since the dumper adds its own newline. This always works:
              // * No ending newline => unaffected; already using strip \"\" chomping
              // * Ending newline
              // => removed then restored. Importantly, this keeps the \"+\" chomp indicator from gaining an
              // extra line:
              // function writeScalar(state, string, singleLineOnly, indentPerLevel, lineWidth, testAmbigiousType)
              // Strings interpretable as another type have to be quoted
              // e.g. the string 'true' vs. the boolean true.
              // Return plain
              // ! testAmbigiousType(string) ?
              // STYLE_PLAIN : STYLE_SINGLE
              // Edge case: block indentation indicator can only have one digit.
              // At this point we
              // Prefer literal style unless we want to fold
              // return hasFoldableLine ?
              // STYLE_FOLDED : STYLE_LITERAL
              // Note: line breaking/folding is implemented for only the folded
              // style
              // NB. We drop the last trailing newline (if any) of a returned block scalar
              // since the dumper adds its own newline. This always works:
              // * No ending newline => unaffected; already using strip \"\" chomping
              // * Ending newline
              // => removed then restored. Importantly, this keeps the \"+\" chomp indicator from gaining an
              // extra line:
              // function writeScalar(state, string, singleLineOnly, indentPerLevel, lineWidth, testAmbigiousType)
```

```
```

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```

Dear Footer: Hello, this is the footer. It contains some information and is placed at the end of the document. It includes details about the service pack, version, and other relevant data. The footer is typically used to display legal notices, copyright information, or other important details related to the document. It is a common practice to maintain this footer throughout the document to provide a consistent and clear way for users to identify and reference the document's source. This footer is situated at the bottom of the page, ensuring that users are aware of its presence and can easily locate it when needed.
function testAmbiguity(string) {
  return testImplicitResolving(state, string);
}

function switch(chooseScalarStyle(string, singleLineOnly, state-indent, lineWidth, testAmbiguity)) {
  var case/style/PLAIN: return string;
  var case STYLE/SINGLE: return "" + string.replace(/\g{1},\""\"\"\"\""\"\"; default:
    throw new YAMLException('impossible error: invalid scalar style');
  }
}

function blockHeader(string, state-indent) {
  return '>' + blockHeader(string, state-indent);
}

function dropEndingNewline(indentString(string, indent)) {
  return dropEndingNewline(indentString(string, indent)) + dropEndingNewline(indentString(string, indent, indent));
}

function foldString(string, width) {
  // 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 $k$. Therefore, parse each chunk as newline(s) followed
  by a content line.\n  var lineRe = /(\n+)\+([^\n]*)/g;\n  // first line (possibly an empty line)\n  var result = (function () {
    var nextLF = string.indexOf('\n');
    nextLF = nextLF !== -1 ? nextLF : string.length;
    lineRe.lastIndex = nextLF;\n    return foldLine(string.slice(0, nextLF), width);
  }());\n  // If we haven't reached the first content line yet, don't add an extra
  moreIndentend = string[0];\n  \n  // rest of the lines\n  var match;\n  while ((match = lineRe.exec(string))) {
    var prefix = match[1], line = match[2];\n    moreIndentend = (line[0] === '\n');\n    result += prefix + (moreIndentend && line !== '' ? '' : foldLine(line, width));\n    prevMoreIndentend = moreIndentend;\n  }\n
  return result;
}

// Greedy line breaking.\n// Picks the longest line under the limit each time,\n// otherwise settles for the
  // Note: a long line without a suitable break point will exceed the width limit.\n// Pre-conditions: every char in string is Printable, string.length > 0, width > 0.\nfunction foldString(string, lineWidth) {
  var result = '';
  var char, nextChar;
  var escapeSeq;\n
  for (var i = 0; i < string.length; i++) {
    char = string.charCodeAt(i);
    nextChar = string.charCodeAt(i + 1);

    // Check for surrogate pairs (reference Unicode 3.0 section 3.7 Surrogates).\n    if (char >= 0xD800 && nextChar >= 0xDC00 && nextChar <= 0xDFFF/* low surrogate */) {
      nextChar = string.charCodeAt(i + 1);
      if (nextChar >= 0xDC00 && nextChar <= 0xDFFF/* high surrogate */) {
        char = (char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000;
      } else {
        result += escapeSeq;
      }
      result += string[i] + escapeSeq || encodeHex(char);
    } else {
      result += string[i];
    }
  }
  return result;
}

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var objectOrArray = type === '[object Object]' || type === '[object Array]',
    duplicateIndex,
    duplicate;

if (objectOrArray) {
    duplicateIndex = state.duplicates.indexOf(object);
    duplicate = duplicateIndex !== -1;

    if (block && (state.tag !== null && state.tag !== '?')) {
        writeBlockMapping(state, level, state.dump, compact);
        if (duplicate) {
            state.dump = '&ref_' + duplicateIndex + state.dump;
        }
    } else {
        writeFlowMapping(state, level, state.dump);
        if (duplicate) {
            state.dump = '&ref_' + duplicateIndex + ' ' + state.dump;
        }
    }
}

if (state.tag !== null && state.tag !== '?') {
    compact = false;
}

if (state.tag !== null && state.tag !== '?') {
    writeFlowMapping(state, level, state.dump);
    if (duplicate) {
        state.dump = '&ref_' + duplicateIndex + ' ' + state.dump;
    }
}

if (state.tag !== null && state.tag !== '?') {
    state.dump = '!<' + state.tag + '> ' + state.dump;
}

return true;
}

function dump(input, options) {
  options = options || {};

  var state = new State(options);

  if (!state.noRefs) getDuplicateReferences(input, state);

  if (writeNode(state, 0, input, true, true)) return state.dump + '\n';

  return '';
}

function safeDump(input, options) {
  return dump(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
}

module.exports.dump = dump;
module.exports.safeDump = safeDump;


var baseGetTag = require('./_baseGetTag'),
  isArray = require('./isArray'),
  isObjectLike = require('./isObjectLike');

/** `Object#toString` result references. */
var stringTag = '[object String]';

/**
 * Checks if `value` is classified as a `String` primitive or object.
 *
 * @static
 * @memberOf _
 * @category Lang
 * @param {*} value The value to check.
 *
 * @returns {boolean} Returns `true` if `value` is a string, else `false`.
 * @example
 *
 * _.isString('abc');
 * // => true
 *
 * _.isString(1);
 * // => false
 */
function isString(value) {
  return typeof value == 'string' ||
    (!isArray(value) && isObjectLike(value) && baseGetTag(value) == stringTag);
}

module.exports = isString;


var module_id = 526

```javascript
/**
 * Creates a debounced function that delays invoking `func` until after `wait`
 * milliseconds have elapsed since the last time the debounced function was
 * invoked. The debounced function comes with a `cancel` method to cancel
 * delayed `func` invocations and a `flush` method to
 * immediately invoke them. Provide `options` to indicate whether `func` should be invoked on the
 * leading and/or trailing edge of the `wait` timeout. The `func` is invoked
 * with the last arguments provided to the
 */
function debound(func, wait, maxWait, immediate) {
  var result, timer, timeout, isRunning, isUnset
    var lastArgs, last_ctx
    var later = function() {
      var res
      last_ctx = this
      lastArgs = arguments
      res = func.apply(last_ctx, lastArgs)
      if (isRunning || !immediate) {
        lastArgs = last_ctx = res = undefined
        if (immediate && !isRunning && !isUnset)
          return res
        timer = setTimeout(later, wait)
      }
    }
    later
    return later
}

function debound(func, wait, maxWait, immediate) {
  var result, timer, timeout, isRunning, isUnset
    var lastArgs, last_ctx
    var later = function() {
      var res
      last_ctx = this
      lastArgs = arguments
      res = func.apply(last_ctx, lastArgs)
      if (isRunning || !immediate) {
        lastArgs = last_ctx = res = undefined
        if (immediate && !isRunning && !isUnset)
          return res
        timer = setTimeout(later, wait)
      }
    }
    later
    return later
}

function debound(func, wait, maxWait, immediate) {
  var result, timer, timeout, isRunning, isUnset
    var lastArgs, last_ctx
    var later = function() {
      var res
      last_ctx = this
      lastArgs = arguments
      res = func.apply(last_ctx, lastArgs)
      if (isRunning || !immediate) {
        lastArgs = last_ctx = res = undefined
        if (immediate && !isRunning && !isUnset)
          return res
        timer = setTimeout(later, wait)
      }
    }
    later
    return later
}

function debound(func, wait, maxWait, immediate) {
  var result, timer, timeout, isRunning, isUnset
    var lastArgs, last_ctx
    var later = function() {
      var res
      last_ctx = this
      lastArgs = arguments
      res = func.apply(last_ctx, lastArgs)
      if (isRunning || !immediate) {
        lastArgs = last_ctx = res = undefined
        if (immediate && !isRunning && !isUnset)
          return res
        timer = setTimeout(later, wait)
      }
    }
    later
    return later
}

function debound(func, wait, maxWait, immediate) {
  var result, timer, timeout, isRunning, isUnset
    var lastArgs, last_ctx
    var later = function() {
      var res
      last_ctx = this
      lastArgs = arguments
      res = func.apply(last_ctx, lastArgs)
      if (isRunning || !immediate) {
        lastArgs = last_ctx = res = undefined
        if (immediate && !isRunning && !isUnset)
          return res
        timer = setTimeout(later, wait)
      }
    }
    later
    return later
}

function debound(func, wait, maxWait, immediate) {
  var result, timer, timeout, isRunning, isUnset
    var lastArgs, last_ctx
    var later = function() {
      var res
      last_ctx = this
      lastArgs = arguments
      res = func.apply(last_ctx, lastArgs)
      if (isRunning || !immediate) {
        lastArgs = last_ctx = res = undefined
        if (immediate && !isRunning && !isUnset)
          return res
        timer = setTimeout(later, wait)
      }
    }
    later
    return later
}

function debound(func, wait, maxWait, immediate) {
  var result, timer, timeout, isRunning, isUnset
    var lastArgs, last_ctx
    var later = function() {
      var res
      last_ctx = this
      lastArgs = arguments
      res = func.apply(last_ctx, lastArgs)
      if (isRunning || !immediate) {
        lastArgs = last_ctx = res = undefined
        if (immediate && !isRunning && !isUnset)
          return res
        timer = setTimeout(later, wait)
      }
    }
    later
    return later
}
```

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---

This code snippet is part of the `js-yaml` library, which is a JavaScript implementation of the YAML format. The code contains functions for dumping objects to YAML strings, handling duplicate references, and checking if a value is a string. It also includes a debounced function for delaying the execution of a function. The `isString` function checks if a given value is a string, while the `debound` function creates a debounced function that delays its execution by a specified `wait` and `maxWait` timeout.
debounced function. Subsequent calls to the debounced function return the result of the last `func` invocation. *Note:* If `leading` and `trailing` options are `true`, `func` is invoked on the trailing edge of the timeout only if the debounced function is invoked more than once during the `wait` timeout. *If `wait` is `0` and `leading` is `false`, `func` invocation is deferred until the next tick, similar to `setTimeout` with a timeout of `0`.*

```javascript
module.exports = debounce;
```

---

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var $Object = require('._/modules/_core').Object;
$Object.prototypeExports = function create(P, D) {
  $Object.exports = require('core-js/library/fn/object/create');
  $Object._esModule = true;
  $Object.exports = D;
  $Object.exports[Object.prototype] = $Object.exports;
  $Object.exports[Object.prototype].set = require('./_ctx')(Function.call, require('./_object-gopd').f(Object.prototype, '__proto__).set, 2);
  $Object.exports[Object.prototype].check = require('./_check')(require('./_object-get'), require('./_object-gopd').f(Object.prototype, '__proto__'), 2);
  $Object.exports[Object.prototype].check.$$proto = undefined;
  $Object.exports[Object.prototype].check.checkkn = function() {
    $Object.exports[Object.prototype].check.$$proto = undefined;
    $Object.exports[Object.prototype].check.checkkn = undefined;
  };
  $Object.exports[Object.prototype].setPrototypeOf(O, proto) {
    $Object.exports[Object.prototype].check.checkkn();
    if ($Object.exports[Object.prototype].check.$$proto === proto) {
      return $Object.exports[Object.prototype].check.$$proto;
    }
    $Object.exports[Object.prototype].check.checkkn();
    return $Object.exports[Object.prototype].check.$$proto = proto;
  }
};

module.exports = $Object.exports;

...
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]';

/** Used to identify `toStringTag` values supported by `_._clone`. */
var cloneableTags = {
  argsTag: cloneableTags[arrayTag] = cloneableTags[arrayBufferTag] =
  cloneableTags[dataViewTag] = cloneableTags[float32Tag] =
  cloneableTags[float64Tag] = cloneableTags[int16Tag] =
  cloneableTags[int32Tag] = cloneableTags[numberTag] =
  cloneableTags[objectTag] = cloneableTags[regexpTag] =
  cloneableTags[setTag] = cloneableTags[stringTag] = cloneableTags[symbolTag] =
  cloneableTags[uint8Tag] = cloneableTags[uint8ClampedTag] =
  cloneableTags[uint16Tag] = cloneableTags[uint32Tag] =
  true; cloneableTags[errorTag] = cloneableTags[funcTag] =
  cloneableTags[weakMapTag] = false;

/**
 * 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
 * @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 || (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, key, object, stack));
    });
  }
  if (isMap(value)) {
    var result = initCloneByTag(value, tag, isDeep);
    // Check for circular references and return its corresponding clone.
    stack || (stack = new Stack);
    var stacked = stack.get(result);
    if (stacked) {
      return stacked;
    }
    stack.set(result, value);
  }
  if (isArr) {
    return result;
  }
  if (isMap) {
    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;
    } else {
      if (isMap(value)) {
        return result;
      }
    }
    var keysFunc = isFull ? isFlat ? keysIn : keys : keysFunc;
    var result = initCloneByTag(value, tag, isDeep);
    // Recursively populate clone (susceptible to call stack limits).
    assignValue(result, key, baseClone(subValue, bitmask, customizer, key, value, stack));
  });
  return result;
}

module.exports = baseClone;
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@since 0.1.0
@category Array
@returns {Array} Returns the new flattened array.

* @param {Array} array The array to flatten.
* @returns {Array} Returns the new flattened array.

* @example

* const array = [1, [2, [3, [4]]], 5];
* console.log(_.flatten(array));
* // => [1, 2, 3, 4, 5]
*
* function flatten(array) {
*   var length = array.length;
*   return length > 1 ? baseFlatten(array, 1) : array;
* }
* module.exports = flatten;

@func

@category Array
@returns {Array} Returns the new flattened array.

* @param {Array} array The array to flatten.
* @param {number} depth The maximum recursion depth.
* @param {boolean} [predicate=isFlattenable] The function invoked per iteration.
* @returns {Array} Returns the new flattened array.
*
* function baseFlatten(array, depth, predicate, isStrict, result) {
*   var length = array.length;
*   if (depth > 0 && predicate(value)) {
*     if (depth > 1) {
*       baseFlatten(value, depth - 1, predicate, isStrict, result);
*     } else {
*       arrayPush(result, value);
*     }
*   } else if (!isStrict) {
*     result[result.length] = value;
*   }
*   return result;
* }
* module.exports = baseFlatten;

isFlattenable = require('./_isFlattenable');

function isFlattenable(value) {
  return isArray(value) || isArguments(value) || !!(spreadableSymbol && value && value[spreadableSymbol]);
}
* module.exports = isFlattenable;

overRest = require('./_overRest');

function overRest(func, start, transform) {
  start = nativeMax(start === undefined ? (func.length - 1) : start, 0);
  return function() {
    var args = arguments,
    index = -1,
    length = nativeMax(args.length - start, 0);

    while (++index < length) {
      array[index] = args[start + index];
    }
    index = -1;
    var otherArgs = Array(start + 1);
    while (++index < start) {
      otherArgs[index] = args[index];
    }
    otherArgs[start] = transform(array);

    return apply(func, this, otherArgs);
  };
}
* module.exports = overRest;

apply = require('./_apply');

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;

setToString = require('./_setToString');

function setToString(func) {
  return function() {
    var args = arguments,
    index = -1,
    length = nativeMax(args.length - 1, 0);

    while (++index < length) {
      array[index] = args[index];
    }
    index = -1;
    var otherArgs = Array(start + 1);
    while (++index < start) {
      otherArgs[index] = args[index];
    }
    otherArgs[start] = transform(array);

    return apply(func, this, otherArgs);
  };
}
* module.exports = setToString;

constant = require('./_constant');

var constant = true;

var module.exports = constant;

*/

*/
The base implementation of `setToString` without support for hot loop shorting.

```javascript
var baseSetToString = !defineProperty ? identity : function(func, string) {
  return defineProperty(func, 'toString', {
    'configurable': true,
    'enumerable': false,
    'value': constant(string),
    'writable': true
  });
};

module.exports = baseSetToString;
```

---

```
function constant(value) {
  return function() {
    return value;
  };
}

module.exports = constant;
```

---

```
var HOT_COUNT = 800,
    HOT_SPAN = 16;

var nativeNow = Date.now;

function shortOut(func) {
  var count = 0,
      lastCalled = 0;

  return function() {
    var stamp = nativeNow(),
        remaining = HOT_SPAN - (stamp - lastCalled);

    lastCalled = stamp;
    if (remaining > 0) {
      if (++count >= HOT_COUNT) {
        return arguments[0];
      }
    } else {
      count = 0;
    }
    return func.apply(undefined, arguments);
  };
}

module.exports = shortOut;
```

---

```
var url = "https://petstore.swagger.io/v2/swagger.json";

```

---

```
const { opId } = helpers

export default class OperationContainer extends PureComponent {

  constructor(props, context) {
    super(props, context)
    this.state = {
      tryItOutEnabled: false,
      executeInProgress: false
    }
  }

  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,
    isAuthorized: PropTypes.bool,
    oas3Actions: PropTypes.object,
    oas3Selectors: PropTypes.object,
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    layoutActions: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    fn: PropTypes.object.isRequired,
    request: PropTypes.instanceOf(Iterable),
    response: PropTypes.instanceOf(Iterable),
    security: PropTypes.object,
    specPath: PropTypes.string.isRequired,
    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,
    getConf: PropTypes.func.isRequired
  }

  static defaultProps = {
    showSummary: true,
    response: null,
    allowTryItOut: true,
    displayOperationId: false,
    displayRequestDuration: false
  }

  constructor(props, context) {
    super(props, context)
    this.state = {
      tryItOutEnabled: false,
      executeInProgress: false
    }
  }

  componentWillReceiveProps(nextProps) {
    super.componentWillReceiveProps(nextProps);
    if (nextProps.showSummary !== this.props.showSummary) {
      this.props.onSummaryChange();
    }
  }

  render() {
    return (
      <div>
        <OperationDescription...
      </div>
    );
  }
}

```

---

```
import React, { PureComponent } from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"
import { helpers } from "swagger-client"
import { Iterable, fromJS, Map } from "immutable"

```

---

```
{ opId } = helpers
  
  super(props, context)
  this.state = {
    tryItOutEnabled: false,
    executeInProgress: false
  }
```

---

```
const { super(props, context)} this.state = {
  tryItOutEnabled: false,
  executeInProgress: false
}
```

---

```
const { super(props, context)} this.state = {
  tryItOutEnabled: false,
  executeInProgress: false
}
```

---

```
const { super(props, context)} this.state = {
  tryItOutEnabled: false,
  executeInProgress: false
}
```

---

```
const { super(props, context)} this.state = {
  tryItOutEnabled: false,
  executeInProgress: false
}
```

---

```
const { super(props, context)} this.state = {
  tryItOutEnabled: false,
  executeInProgress: false
}
```
operationId = op.getIn(["operation", "__originalOperationId']) || op.getIn(["operation", "operationId"]) ||
opId(op, get("operation"), props.path, props.method) || op.get("id")
const isShownKey = ["operations", props.tag, operationId]
const isDeepLinkingEnabled = deepLinking && &
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,
  allowTryItOut,
  security,
  isAuthorized: props.authSelectors.isAuthorized(security),
  isShown: layoutSelectors.isShown(isShownKey, docExpansion === "full" ),
  jumpToKey: `paths.${props.path}.${props.method}`.replace(/\s+\//g, "/"),
  response: props.specSelectors.responseFor(props.path, props.method),
request: props.specSelectors.requestFor(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)
}

onCancelClick=() => {
  this.setState({tryItOutEnabled: !this.state.tryItOutEnabled})
}

onTryoutClick =() => {
  let { specActions, path, method } = this.props
  this.setState({tryItOutEnabled: !this.state.tryItOutEnabled})
  specActions.clearValidateParams([path, method])
}

onExecute = () => {
  this.setState({ executeInProgress: true })
}

getResolvedSubtree = () => {
  const {
    specSelectors,
    path,
    method,
    specPath
  } = this.props

  if(specPath) {
    return specSelectors.specResolvedSubtree(specPath.toJS())
  }

  return specSelectors.specResolvedSubtree(["paths", path, method])
}

requestResolvedSubtree = () => {
  const {
    specActions,
    path,
    method,
    specPath
  } = this.props

  if(specPath) {
    return specActions.requestResolvedSubtree(specPath.toJS())
  }

  return specActions.requestResolvedSubtree(["paths", path, method])
}

render() {
  let {
    op: unresolvedOp,
    tag,
    path,
    method,
    summary: unresolvedOp.getIn(["operation", "summary"]) || "",
    deprecated: unresolvedOp.getIn(["operation", "deprecated"]) || false,
    security, isAuthorized, operationId,
    showSummary,
    jumpToKey, allowTryItOut, response, request,
    displayOperationId,
    displayRequestDuration,
    isDeepLinkingEnabled, specPath, specSelectors,
    specActions,
    getComponent, getConfigs, layoutSelectors, layoutActions, authActions,
    authSelectors, oas3Actions, oas3Selectors, fn, } = this.props

  const Operation = getComponent("operation")

  const resolvedSubtree = this.getResolvedSubtree()

  return Operation
    .operation(resolvedSubtree)
    .response(response)
    .request(request)
    .isShown(isShown)
    .toggleShown(toggleShown)
    .onTryoutClick(onTryoutClick)
    .onCancelClick(onCancelClick)
    .onExecute(onExecute)
    .specPath(specPath)
    .specSelectors(specSelectors)
    .oas3Actions(oas3Actions)
    .oas3Selectors(oas3Selectors)
    .layoutActions(layoutActions)
    .layoutSelectors(layoutSelectors)
showPopup={!!authSelectors.shownDefinitions()}

getComponent={getComponent}

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>
  )
}}

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 authorizedAuth = definitions.filter( (definition, key) => {
    return !!authorized.get(key)
  })

  let nonOauthDefinitions = definitions.filter( schema => schema.get("type") !== "oauth2")
  let oauthDefinitions = definitions.filter( schema => schema.get("type") === "oauth2")

  return (
    <div className="auth-container">
      {
        nonOauthDefinitions.size && <form onSubmit={ this.submitAuth }>
          {
            nonOauthDefinitions.map( (schema, name) => {
              return <AuthItem
                key={name}
                schema={schema}
                name={name}
                getComponent={getComponent}
                onAuthChange={this.onAuthChange}
                authorized={authorized}
                errSelectors={errSelectors}
                />
            }).toArray()
          }
          <div className="auth-btn-wrapper">
            {
              nonOauthDefinitions.size === authorizedAuth.size ? <Button className="btn modal-btn auth" onClick={ this.logoutClick }>
                Logout
              </Button>
              : <Button type="submit" className="btn modal-btn auth authorize">
                Authorize
              </Button>
            }
            <Button className="btn modal-btn auth btn-done" onClick={ this.close }>
              Close
            </Button>
          </div>
        </form>
      }

      { oauthDefinitions && oauthDefinitions.size ? <div>
          <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. Select which ones you want to grant to Swagger UI.</p>
            <p>API requires the following scopes. Select which ones you want to grant to Swagger UI.</p>
          </div>
          {
            oauthDefinitions.map( (schema, name) =>{
              return (<div key={ name }>
                <Oauth2 authorized={ authorized }
                            schema={ schema }
                            name={ name } />
              </div>)
            }
            ).toArray()
          }
        </div> : null
      }
    </div>
  )
}}

static propTypes = {
  errSelectors: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
  authSelectors: PropTypes.object.isRequired,
  specSelectors: PropTypes.object.isRequired,
  authActions: PropTypes.object.isRequired,
  definitions: ImPropTypes.iterable.isRequired,
}


ImPropTypes from \"react-immutable-proptypes\"\n
export default class Auths extends React.Component {

  static propTypes = {
    schema: ImPropTypes.orderedMap.isRequired,
    name: PropTypes.string.isRequired,
    onAuthChange: PropTypes.func.isRequired,
    authorized: ImPropTypes.orderedMap.isRequired
  }

  render() {
    let { schema, name, getComponent, onAuthChange, authorized, errSelectors } = this.props
    const ApiKeyAuth = getComponent("apiKeyAuth")
    const BasicAuth = getComponent("basicAuth")
    let authEl
    name = name || schema.get("name")
    authorized = { authorized: getComponent }\n
    onChange = (onAuthChange) => \n      break\n      case "basic": authEl = <BasicAuth key={ name } \n        name: name \n        authorized: authorized \n        getComponent: getComponent \n        onChange: onAuthChange \n      }\n
    return <div>
      <h4> <code>{ name || schema.get("name") }</code>&nbsp; (apiKey) <JumpToPath path={["securityDefinitions", name ]})\n    
    let { name, authorized } = this.props
    let value = this.getValue()
    let errors = errSelectors.allErrors().filter( err => err.get("authId") === name )\n
    return <div><h4> \n    let { onAuthChange } = this.props\n    let level = error.get("level")\n    let message = error.get("message")\n    let source = error.get("source")\n    return <div className="errors" style={{ backgroundColor: "#ffeeee", color: \"red\", margin: \"1em\" }}>
      <b style={{ textTransform: "capitalize", marginRight: \"1em\"}}>&nbsp;{ source } { level }&nbsp;</b>
      { message }
    </div>
  
  return <div key={ name }>Unknown security definition type { type } </div>\n  
  return (error, value) => {
    return <div className="errors" style={{ backgroundColor: "#ffeeee", color: \"red\", margin: \"1em\" }}>
      
      { AuthError error={ error } key={ key } />
    }\n
    authEl = <ApiKeyAuth key={ name } \n    name: name \n    authorized: authorized \n    getComponent: getComponent \n    onChange: onAuthChange }

    return (<div key={`${name}-jump`}>\n
      { authEl }
    </div>)
  }

  static propTypes = {
    errSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    definitions: ImPropTypes.iterable.isRequired
  }
}

// WEBPACK FOOTER //
// ./src/core/components/auth/auth-item.jsx","import React from \"react\"\n
export default class AuthError extends React.Component {

  static propTypes = {
    error: PropTypes.object.isRequired
  }

  render() {
    let { error } = this.props
    let level = error.get("level")
    let message = error.get("message")
    let source = error.get("source")

    return (<div className="errors" style={{ backgroundColor: "#ffeeee", color: \"red\", margin: \"1em\" }}>
      <b style={{ textTransform: "capitalize", marginRight: \"1em\"}}>&nbsp;{ source } { level }&nbsp;</b>
      { message }
    </div>)
  }
}

// WEBPACK FOOTER //
// ./src/core/components/auth/error.jsx","import React from \"react\"\n
export default class ApiKeyAuth extends React.Component {

  constructor(props, context) {
    super(props, context)
    let { name, schema } = this.props
    let value = this.getValue()

    this.state = {
      name: name,
      schema: schema,
      value: value
    }

  getValue () {
    let { name, authorized } = this.props
    return authorized && authorized.getIn([name, "value"])
  }

  onChange = (e) => {
    let { onChange } = this.props
    let value = e.target.value
    let newState = Object.assign({}, this.state, { value: value })

    this.setState(newState)
    onChange(newState)
  }

  render() {
    let { schema, getComponent, errSelectors, name } = this.props
    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)
    return (name || schema.get("name") || schema.get("name"))\n    
    { input: value ? <code>****** </code> : <Col> <Input type="text" onChange={ this.onChange } /> </Col> }

    \n
    errors.valueSeq().map( (error, key) => {
      return <AuthError error={ error } key={ key } />
    } )\n
    authEl = <ApiKeyAuth key={ name } \n    name: name \n    authorized: authorized \n    getComponent: getComponent \n    onChange: onAuthChange }

    return (<div key={ name }>Unknown security definition type { type } </div>\n  
  return (error, value) => {
    return <div className="errors" style={{ backgroundColor: "#ffeeee", color: \"red\", margin: \"1em\" }}>
      
    <div className="errors" style={{ backgroundColor: "#ffeeee", color: \"red\", margin: \"1em\" }}>
      <b style={{ textTransform: "capitalize", marginRight: \"1em\"}}>&nbsp;{ source } { level }&nbsp;</b>
      { message }
    </div>
  
  return (<div key={ name }>Unknown security definition type { type } </div>\n  
  return (error, value) => {
    return <div className="errors" style={{ backgroundColor: "#ffeeee", color: \"red\", margin: \"1em\" }}>
      
    <div className="errors" style={{ backgroundColor: "#ffeeee", color: \"red\", margin: \"1em\" }}>
      <b style={{ textTransform: "capitalize", marginRight: \"1em\"}}>&nbsp;{ source } { level }&nbsp;</b>
      { message }
    </div>
  
  return (<div key={ name }>Unknown security definition type { type } </div>\n  
  return (error, value) => {
    return <div className="errors" style={{ backgroundColor: "#ffeeee", color: \"red\", margin: \"1em\" }}>
      
    <div className="errors" style={{ backgroundColor: "#ffeeee", color: \"red\", margin: \"1em\" }}>
      <b style={{ textTransform: "capitalize", marginRight: \"1em\"}}>&nbsp;{ source } { level }&nbsp;</b>
      { message }
    </div>
anInstance(target, C, NAME, '_c');\n
target._c = new Base();\n
if (iterable != undefined) forOf(iterable,
IS_MAP, target[ADDER], target);\n });\n
each('add,clear,delete,forEach,get,has,set,keys,values,entries,toJSON'.split(','), function (KEY) {\n
var
IS_ADDER = KEY == 'add' || KEY == 'set';\n
if (KEY in proto && !(IS_WEAK && KEY == 'clear'))
hide(C.prototype, KEY, function (a, b) {\n
anInstance(this, C, KEY);\n
if (!IS_ADDER && IS_WEAK
&& !isObject(a)) return KEY == 'get' ? undefined : false;\n
var result = this._c[KEY](a === 0 ? 0 : a, b);\n
return IS_ADDER ? this : result;\n
});\n });\n IS_WEAK || dP(C.prototype, 'size', {\n
get: function () {\n
return this._c.size;\n
}\n });\n }\n\n setToStringTag(C, NAME);\n\n O[NAME] = C;\n $export($export.G +
$export.W + $export.F, O);\n\n if (!IS_WEAK) common.setStrong(C, NAME, IS_MAP);\n\n return
C;\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/library/modules/_collection.js\n//
module id = 600\n// module chunks = 0","// 0 -> Array#forEach\n// 1 -> Array#map\n// 2 -> Array#filter\n// 3 ->
Array#some\n// 4 -> Array#every\n// 5 -> Array#find\n// 6 -> Array#findIndex\nvar ctx = require('./_ctx');\nvar
IObject = require('./_iobject');\nvar toObject = require('./_to-object');\nvar toLength = require('./_to-length');\nvar
asc = require('./_array-species-create');\nmodule.exports = function (TYPE, $create) {\n var IS_MAP = TYPE ==
1;\n var IS_FILTER = TYPE == 2;\n var IS_SOME = TYPE == 3;\n var IS_EVERY = TYPE == 4;\n var
IS_FIND_INDEX = TYPE == 6;\n var NO_HOLES = TYPE == 5 || IS_FIND_INDEX;\n var create = $create ||
asc;\n return function ($this, callbackfn, that) {\n var O = toObject($this);\n var self = IObject(O);\n var f =
ctx(callbackfn, that, 3);\n var length = toLength(self.length);\n var index = 0;\n var result = IS_MAP ?
create($this, length) : IS_FILTER ? create($this, 0) : undefined;\n var val, res;\n for (;length > index; index++) if
(NO_HOLES || index in self) {\n
val = self[index];\n
res = f(val, index, O);\n
if (TYPE) {\n
if
(IS_MAP) result[index] = res; // map\n
else if (res) switch (TYPE) {\n
case 3: return true;
//
some\n
case 5: return val;
// find\n
case 6: return index;
// findIndex\n
case 2:
result.push(val);
// filter\n
} else if (IS_EVERY) return false; // every\n
}\n }\n return
IS_FIND_INDEX ? -1 : IS_SOME || IS_EVERY ? IS_EVERY : result;\n };\n};\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/core-js/library/modules/_array-methods.js\n// module id = 601\n// module chunks =
0","// 9.4.2.3 ArraySpeciesCreate(originalArray, length)\nvar speciesConstructor = require('./_array-speciesconstructor');\n\nmodule.exports = function (original, length) {\n return new
(speciesConstructor(original))(length);\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/corejs/library/modules/_array-species-create.js\n// module id = 602\n// module chunks = 0","var isObject = require('./_isobject');\nvar isArray = require('./_is-array');\nvar SPECIES = require('./_wks')('species');\n\nmodule.exports =
function (original) {\n var C;\n if (isArray(original)) {\n C = original.constructor;\n // cross-realm fallback\n
if (typeof C == 'function' && (C === Array || isArray(C.prototype))) C = undefined;\n if (isObject(C)) {\n
C=
C[SPECIES];\n
if (C === null) C = undefined;\n }\n } return C === undefined ? Array :
C;\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/library/modules/_array-speciesconstructor.js\n// module id = 603\n// module chunks = 0","// https://github.com/DavidBruant/MapSet.prototype.toJSON\nvar $export = require('./_export');\n\n$export($export.P + $export.R, 'Map', { toJSON:
require('./_collection-to-json')('Map') });\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/corejs/library/modules/es7.map.to-json.js\n// module id = 604\n// module chunks = 0","//
https://github.com/DavidBruant/Map-Set.prototype.toJSON\nvar classof = require('./_classof');\nvar from =
require('./_array-from-iterable');\nmodule.exports = function (NAME) {\n return function toJSON() {\n if
(classof(this) != NAME) throw TypeError(NAME + \"#toJSON isn't generic\");\n return from(this);\n
};\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/library/modules/_collection-tojson.js\n// module id = 605\n// module chunks = 0","var forOf = require('./_for-of');\n\nmodule.exports = function
(iter, ITERATOR) {\n var result = [];\n forOf(iter, false, result.push, result, ITERATOR);\n return
result;\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/core-js/library/modules/_array-fromiterable.js\n// module id = 606\n// module chunks = 0","// https://tc39.github.io/proposal-setmap-offrom/#secmap.of\nrequire('./_set-collection-of')('Map');\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/core-js/library/modules/es7.map.of.js\n// module id = 607\n// module chunks = 0","'use strict';\n//

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```javascript
var $export = require('./_export');

module.exports = function (COLLECTION) {
  $export($export.S, COLLECTION, { of: function of() {
    var length = arguments.length;
    while (length--) A[length] = arguments[length];
    return new this(A);
  } });


```

```javascript
};

```
newStateForNamespace,
    })
    return valueFromExample === currentUserInputValue
  }

  _onExamplesSelect = (key, { isSyntheticChange } = {}, ...otherArgs) => {
    const { onSelect, updateValue, lastUserEditedValue } = this.props
    const valueFromExample = this._getValueForExample(key)
    if (key === "__MODIFIED__VALUE__") {
      updateValue(stringifyUnlessList(lastUserEditedValue))
      return this._setStateForCurrentNamespace({
        isModifiedValueSelected: true,
      })
    }

    if (typeof onSelect === "function") {
      onSelect(key, {
        isSyntheticChange:
      })
    }

    this._setStateForCurrentNamespace({
      lastDownstreamValue:
        valueFromExample,
      isModifiedValueSelected:
        isSyntheticChange &&
        !!currentUserInputValue
    })
  }

  componentWillReceiveProps(nextProps) {
    const { currentUserInputValue: newValue, examples, onSelect } = nextProps
    const {
      lastUserEditedValue,
      lastDownstreamValue,
      isModifiedValueSelected,
    } = this._getStateForCurrentNamespace(nextProps.currentNamespace, {
      lastUserInputValue:
        newValue,
      nextProps
    })
    const exampleMatchingNewValue = examples.find(
      example =>
        example.get("value") === newValue ||
        // sometimes data is stored as a string (e.g. in Request
        // Bodies), so let's check against a stringified version of
        example
    )
    if (exampleMatchingNewValue) {
      onSelect(examples.keyOf(exampleMatchingNewValue), {
        isSyntheticChange: true,
      })
    } else if (newValue !== this.props.currentUserInputValue) {
      this._setStateForNamespace(nextProps.currentNamespace, {
        lastUserInputValue:
          newValue,
        isModifiedValueSelected:
          newValue !== valueFromCurrentExample,
    })
  }

  render() {
    const { currentUserInputValue, examples, currentKey, getComponent } =
      this.props
    const {
      lastDownstreamValue,
      lastUserEditedValue,
      isModifiedValueSelected,
    } =
      this._getStateForCurrentNamespace()
clientSecret = auth && auth.get(\"clientSecret\") || authConfigs.clientSecret || \"\"\n let passwordType = auth &&
auth.get(\"passwordType\") || \"basic\"\n\n this.state = {\n
appName: authConfigs.appName,\n
name:
name,\n
schema: schema,\n
scopes: [],\n
clientId: clientId,\n
clientSecret: clientSecret,\n
username:
username,\n
password: \"\",\n
passwordType: passwordType\n }\n }\n\n close = (e) => {\n
e.preventDefault()\n let { authActions } = this.props\n\n authActions.showDefinitions(false)\n }\n\n authorize
=() => {\n let { authActions, errActions, getConfigs, authSelectors } = this.props\n let configs = getConfigs()\n
let authConfigs = authSelectors.getConfigs()\n\n errActions.clear({authId: name,type: \"auth\", source:
\"auth\"})\n oauth2Authorize({auth: this.state, authActions, errActions, configs, authConfigs })\n }\n\n
onScopeChange =(e) => {\n let { target } = e\n let { checked } = target\n let scope = target.dataset.value\n\n
if ( checked && this.state.scopes.indexOf(scope) === -1 ) {\n
let newScopes =
this.state.scopes.concat([scope])\n
this.setState({ scopes: newScopes })\n } else if ( !checked &&
this.state.scopes.indexOf(scope) > -1) {\n
this.setState({ scopes: this.state.scopes.filter((val) => val !== scope)
})\n }\n }\n\n onInputChange =(e) => {\n let { target : { dataset : { name }, value } } = e\n let state = {\n
[name]: value\n }\n\n this.setState(state)\n }\n\n logout =(e) => {\n e.preventDefault()\n let { authActions,
errActions, name } = this.props\n\n errActions.clear({authId: name, type: \"auth\", source: \"auth\"})\n
authActions.logout([ name ])\n }\n\n render() {\n let {\n
schema, getComponent, authSelectors, errSelectors,
name, specSelectors\n } = this.props\n const Input = getComponent(\"Input\")\n const Row =
getComponent(\"Row\")\n const Col = getComponent(\"Col\")\n const Button = getComponent(\"Button\")\n
const AuthError = getComponent(\"authError\")\n const JumpToPath = getComponent(\"JumpToPath\", true)\n
const Markdown = getComponent( \"Markdown\" )\n\n const { isOAS3 } = specSelectors\n\n // Auth type
consts\n const IMPLICIT = \"implicit\"\n const PASSWORD = \"password\"\n const ACCESS_CODE =
isOAS3() ? \"authorizationCode\" : \"accessCode\"\n const APPLICATION = isOAS3() ? \"clientCredentials\" :
\"application\"\n\n let flow = schema.get(\"flow\")\n let scopes = schema.get(\"allowedScopes\") ||
schema.get(\"scopes\")\n let authorizedAuth = authSelectors.authorized().get(name)\n let isAuthorized =
!!authorizedAuth\n let errors = errSelectors.allErrors().filter( err => err.get(\"authId\") === name)\n let isValid =
!errors.filter( err => err.get(\"source\") === \"validation\").size\n let description = schema.get(\"description\")\n\n
return (\n
<div>\n
<h4>{name} (OAuth2, { schema.get(\"flow\") }) <JumpToPath path={[
\"securityDefinitions\", name ]} /></h4>\n
{ !this.state.appName ? null : <h5>Application: { this.state.appName
} </h5> }\n
{ description && <Markdown source={ schema.get(\"description\") } /> }\n\n
{ isAuthorized
&& <h6>Authorized</h6> }\n\n
{ ( flow === IMPLICIT || flow === ACCESS_CODE ) && <p>Authorization
URL: <code>{ schema.get(\"authorizationUrl\") }</code></p> }\n
{ ( flow === PASSWORD || flow ===
ACCESS_CODE || flow === APPLICATION ) && <p>Token URL:<code> { schema.get(\"tokenUrl\")
}</code></p> }\n
<p className=\"flow\">Flow: <code>{ schema.get(\"flow\") }</code></p>\n\n
{\n
flow !== PASSWORD ? null\n
: <Row>\n
<Row>\n
<label
htmlFor=\"oauth_username\">username:</label>\n
{\n
isAuthorized ? <code> {
this.state.username } </code>\n
: <Col tablet={10} desktop={10}>\n
<input
id=\"oauth_username\" type=\"text\" data-name=\"username\" onChange={ this.onInputChange }/>\n
</Col>\n
}\n
</Row>\n
{\n\n
}\n
<Row>\n
<label
htmlFor=\"oauth_password\">password:</label>\n
{\n
isAuthorized ? <code> ******
</code>\n
: <Col tablet={10} desktop={10}>\n
<input id=\"oauth_password\"
type=\"password\" data-name=\"password\" onChange={ this.onInputChange }/>\n
</Col>\n
}\n
</Row>\n
<Row>\n
<label htmlFor=\"password_type\">Client credentials
location:</label>\n
{\n
isAuthorized ? <code> { this.state.passwordType } </code>\n
: <Col tablet={10} desktop={10}>\n
<select id=\"password_type\" data-name=\"passwordType\"
onChange={ this.onInputChange }>\n
<option value=\"basic\">Authorization header</option>\n
<option value=\"request-body\">Request body</option>\n
</select>\n
</Col>\n
}\n
</Row>\n
</Row>\n
}\n
{\n
( flow === APPLICATION || flow ===
IMPLICIT || flow === ACCESS_CODE || flow === PASSWORD ) &&\n
( !isAuthorized || isAuthorized &&

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this.state.clientId) && <Row>
            <label htmlFor="client_id">client_id:</label>
            {
              isAuthorized ? <code>******</code> : <Col tablet={10} desktop={10}>
              <input id="client_id"
                type="text"
                required={flow === PASSWORD}
                value={this.state.clientId}
                data-name="clientId"
                onChange={this.onInputChange} />
            </Col>
          </Row>
        }

        {
          (flow === APPLICATION || flow === ACCESS_CODE || flow === PASSWORD) && <Row>
            <label htmlFor="client_secret">client_secret:</label>
            {
              isAuthorized ? <code>******</code> : <Col tablet={10} desktop={10}>
              <input id="client_secret"
                type="text"
                data-name="clientSecret"
                onChange={this.onInputChange} />
            </Col>
          </Row>
        )}

        {!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}`}
                  htmlFor={name}>
                  <span className="item"></span>
                  <div className="text">
                    <p className="name">{name}</p>
                    <p className="description">{description}</p>
                  </div>
                </label>
              </div>
            )
          })
        } : null
      }

      {errors.valueSeq().map((error, key) => {
        return <AuthError error={error} key={key} />
      })
    }
    <div className="auth-btn-wrapper">
      {isValid &&
        isAuthorized ?
          <Button className="btn modal-btn auth authorize" onClick={this.logout}>Logout</Button>
        : <Button className="btn modal-btn auth authorize" onClick={this.authorize}>Authorize</Button>
      }
      <Button className="btn modal-btn auth btn-done" onClick={this.close}>Close</Button>
    </div>

export default function authorize({ auth, authActions, errActions, configs, authConfigs={}}) {
  let { schema, scopes, name, clientId } = auth
  let flow = schema.get("flow")
  let query = []

  switch (flow) {
    case "password":
      authActions.authorizePassword(auth)
      return
    case "application":
      authActions.authorizeApplication(auth)
      return
    case "accessCode":
      query.push("response_type=code")
      break
    case "implicit":
      query.push("response_type=token")
      break
    case "clientCredentials":
      // OAS3
      authActions.authorizeApplication(auth)
      return
    case "authorizationCode":
      // OAS3
      query.push("response_type=code")
      break
    case "authorizationCode":
      // OAS3
      query.push("response_type=token")
      break
    case "authorizationCode":
      // OAS3
      query.push("response_type=token")
      break
    case "clientCredentials":
      // OAS3
      authActions.authorizeApplication(auth)
      return
    case "authorizationCode":
      // OAS3
      query.push("response_type=code")
      break
    case "authorizationCode":
      // OAS3
      query.push("response_type=token")
      break
    case "clientCredentials":
      // OAS3
      authActions.authorizeApplication(auth)
      return
  }

  if (typeof clientId === "string") {
    query.push("client_id=" + encodeURIComponent(clientId))
  }

  let redirectUrl = configs.oauth2RedirectUrl

  // todo move to parser
  if (typeof redirectUrl === "undefined") {
    errActions.newAuthErr(
      { authId: name, source: "validation", level: "error", message: "oauth2RedirectUrl configuration is not passed. Oauth2 authorization cannot be performed." })
    return
  }

  query.push("redirect_uri=" + encodeURIComponent(redirectUrl))

  if (Array.isArray(scopes) && 0 < scopes.length) {
    let scopeSeparator = authConfigs.scopeSeparator || " ">
    query.push("scope=" + encodeURIComponent(scopes.join(scopeSeparator)))
  }

  const authorizationUrl = schema.get("authorizationUrl")
  const sanitizedAuthorizationUrl = sanitizeUrl(authorizationUrl)
  let url = [sanitizedAuthorizationUrl, query.join("&")].join(authorizationUrl.indexOf("?") === -1 ? "?": 

pass action authorizeOauth2 and authentication data through window
// to authorize with oauth2
let 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,
  }
}

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) {
    // BUG: props.response is always coming back as a new Immutable instance
    // same issue as responses.jsx (tryItOutResponse)
    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 headersKeys = Object.keys(headers)
    const contentType = headers["Content-Type"]
    const Curl = getComponent("curl")
    const ResponseBody = getComponent("responseBody")

    return (
      <div>
        { curlRequest && (<Curl request={ curlRequest }/>) }
        { url && (<div className="request-url">
          <pre>{url}</pre>
        </div>) }
        <h4>Server response</h4>
        <table className="responses-table live-responses-table">
          <thead>
            <tr className="responses-header">
              <td className="col col_header response-col_status">Code</td>
              <td className="col col_header response-col_description">Details</td>
            </tr>
          </thead>
          <tbody>
            <tr className="response">
              <td className="col response-col_status">
                { status }
                { notDocumented ? (<div className="response-undocumented">
                  Undocumented
                </div>) : null }
              </td>
              <td className="col response-col_description">
                { error ? (<pre>{errorMessage}</pre>) : null }
              </td>
            </tr>
          </tbody>
        </table>
      </div>
    )
  }
}
if (filter) {
  const taggedOps = fn.opsFilter(taggedOps, filter)
}

if (maxDisplayedTags && !isNaN(maxDisplayedTags) && maxDisplayedTags >= 0) {
  taggedOps = taggedOps.slice(0, maxDisplayedTags)
}

return (
  <div>
    { taggedOps.map((tagObj, tag) => {
      const operations = tagObj.get("operations")
      const path = tagObj.get("path")
      const method = tagObj.get("method")

      if (validMethods.indexOf(method) === -1) {
        return null
      }

      return <OperationContainer
               key={"operation-" + tag}
               specPath={specPath}
               op={op.get("path")}
               method={op.get("method")}
               path={path}
               method={method}
               tag={tag}
               />
    })
    .toArray()
  }

  { taggedOps.size < 1 ? <h3> No operations defined in spec! </h3> : null }
</div>
);
target="_blank"

</div><button className="expand-operation" title={showTag ? "Collapse operation": "Expand operation"} onClick={() =>
  layoutActions.show(isShownKey, !showTag)}>
  <svg className="arrow" width="20" height="20" use="href=(showTag ? "/#large-arrow-down" : "/#large-arrow") xlinkHref=(showTag ? "/#large-arrow-down" : "/#large-arrow") />
</button>
</div>

</Collapse>

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,
  executeInProgress
} = operationProps.toJS()

let {
  description,
  externalDocs,
  schemes
} = op

let operation = operationProps.getIn(["op"])
let responses = operation.get("responses")
let parameters = getList(operation, ["parameters"])
let operationScheme = specSelectors.operationScheme(path, method)
let isShownKey = ["operations", tag, operationId]
let extensions = getExtensions(operation)

const Responses = getComponent("responses")
const Parameters = getComponent("parameters")
const Execute = getComponent("execute")
const Clear = getComponent("clear")
const Collapse = getComponent("Collapse")
const Markdown = getComponent("Markdown")
const Schemes = getComponent("schemes")

const OperationServers = getComponent("OperationServers")
const OperationExt = getComponent("OperationExt")
const OperationSummary = getComponent("OperationSummary")
const Link = getComponent("Link")

const { showExtensions } = getConfigs()

let operationProps = this.props.operation

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,
  executeInProgress
} = operationProps.toJS()
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oas3Actions, path, method } = this.props
if (controlsAcceptHeader) {
  oas3Actions.setResponseContentType({
        value, path, method
      })
}

let { responses, tryItOutResponse, getComponent, getConfigs, specSelectors, fn, producesValue, displayRequestDuration, path, method, oas3Selectors, oas3Actions } = this.props
let defaultCode = defaultStatusCode(responses)
const Content_Type = getComponent("contentType")
const LiveResponse = getComponent("liveResponse")
const Response = getComponent("response")
let produces = this.props.produces && this.props.produces.size
const acceptControllingResponse = isSpecOAS3

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 }
            />
          </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}
                      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 }
                      activeExamplesKey={oas3Selectors.activeExamplesMember(path,
                        method, fn) }
                      oas3Actions={oas3Actions }
                    getComponent={ getComponent }
                  />
                )
            )).toArray()
          }
        </table>
      </div>
    </div>
  )
}

export default class Response extends React.Component {
  constructor(props, context) {
    super(props, context)
    this.state = {
      responseContentType: "",
    }
  }

  static propTypes = {
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    code: PropTypes.string.isRequired,
    response: PropTypes.instanceOf(Iterable),
    className: PropTypes.string,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.func.isRequired,
    controlsAcceptHeader: PropTypes.func.isRequired,
    onContentTypeChange: PropTypes.func.isRequired,
    contentType: PropTypes.string.isRequired,
    getComponent: PropTypes.func.isRequired,
    path: PropTypes.string.isRequired,
    code: PropTypes.string.isRequired,
    response: PropTypes.instanceOf(Iterable),
    className: PropTypes.string,
  }

  onContentTypeChange() {
    this.setState({ contentType: this.state.contentType }, () =>
      this.componentDidUpdate()
    )
  }

  render() {
    const contentType = this.state.contentType
    return (<
      <div className="responses-wrapper">
        <div className="opblock-section-header">
          <h4>Responses</h4>
          { specSelectors.isOAS3() ? null : <label>
            <span>Response content type</span>
            <ContentType value={contentType}
                          onChange={this.onChangeContentTypesWrapper}
                          contentTypes={["text/plain", "application/json", "application/xml", "text/html", "application/octet-stream"]}
                          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 }
              />
            </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={this.state.path}
                        method={this.state.method}
                        specPath={this.state.specPath.push(code)}
                        isDefault={this.state.defaultCode === code}
                        fn={this.state.fn}
                        className={ className }
                        code={ this.state.code }
                        response={ response }
                        specSelectors={ specSelectors }
                        controlsAcceptHeader={response === acceptControllingResponse}
                        onContentTypeChange={this.onResponseContentTypeChange}
                        contentType={ this.state.contentType }
                        activeExamplesKey={oas3Selectors.activeExamplesMember(this.state.path,
                          this.state.method, this.state.fn) }
                        oas3Actions={oas3Actions }
                      getComponent={ this.state.getComponent }
                    />
                  )
              )).toArray()
            }
          </table>
        </div>
      </div>
    )
  }
}

WEBPACK FOOTER
PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    specPath: PropTypes.object.isRequired,
    contentType: PropTypes.string,
    activeExamplesKey: PropTypes.string.isRequired,
    controlsAcceptHeader: PropTypes.bool,
    onContentTypeChange: PropTypes.func
  }

  static defaultProps = {
    response: fromJS({}),
    onContentTypeChange: () => {}

  _onContentTypeChange = (value) => {
    const { onContentTypeChange, controlsAcceptHeader } = this.props
    this.setState({ responseContentType: value })
    onContentTypeChange({
      value: value,
      controlsAcceptHeader
    })
  }

  getTargetExamplesKey = () => {
    const { response, contentType, activeExamplesKey } = this.props
    const activeContentType = this.state.responseContentType || contentType
    const activeMediaType = response.getIn(["content", activeContentType], Map({}))
    const examplesForMediaType = activeMediaType.get("examples", null)

    // Goal: find a schema value for `schema`n
    if(isOAS3) {
      const oas3SchemaForContentType = activeMediaType.get("schema", Map({}))
      schema = oas3SchemaForContentType ? inferSchema(oas3SchemaForContentType.toJS()) : null
      specPathWithPossibleSchema = oas3SchemaForContentType ? List(["content", this.state.responseContentType, "schema"]) : specPath
    } else {
      schema = response.get("schema")
      specPathWithPossibleSchema = response.has("schema") ? specPath.push("schema") : specPath
    }

    // Goal: find an example value for `sampleResponse`
    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(schema.toJS(), activeContentType, {
          includeReadOnly: true
        })
      } else {
        return () => {
          let example = getExampleComponent( sampleResponse, HighlightCode
        )
        return (n => {
          <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}
                    />
                </section>
              ) : null}
        </tr>
      }
bodyEl = <pre>Download headers detected but your browser does not support downloading binary via XHR (Blob).

{bodyEl}

body = JSON.stringify(JSON.parse(content), null, '  ');

bodyEl = <HighlightCode downloadable

fileName={"$\{downloadName\}.json"} value={body} />

// HTML or Plain Text

else if (redirectToType) {

bodyEl = <HighlightCode downloadable

fileName={"$\{downloadName\}.html"} />

// Image

else if (/^image\//.test(contentType)) {

bodyEl = <div>

{/contentEl} <img src={window.URL.createObjectURL(content)} />

// Audio

else if (/^audio\//.test(contentType)) {

bodyEl = <pre><audio controls src={({url, type}) => type}) /></audio></pre>

else if (content.size > 0) {

if (parsedContent) {

bodyEl = <div>

<p className="i">

Unrecognized response type; displaying content as text.</p>

<HighlightCode downloadable

fileName={"$\{downloadName\}.txt"} value={parsedContent} />

} else {

bodyEl = <p className="i">

Unrecognized response type; unable to display.

</p>

} else {

bodyEl = null;

} return (bodyEl ? null : bodyEl);

<h5>Response body</h5>

{bodyEl}

</div>

</div>
let {specActions: {changeConsumesValue}, onChangeKey} = this.props
changeConsumesValue(onChangeKey, val) || toggleTab = (tab) => {
  if (tab === "parameters")
    return this.setState({parametersVisible: true, callbackVisible: false})
  else if (tab === "callbacks")
    return this.setState({callbackVisible: true, parametersVisible: false})
}
render() || let {onTryoutClick, onCancelClick, parameters, allowTryItOut, allowTryItOutEnabled, specPath, fn, getComponent, get_configs, specSelectors, specActions, pathMethod, oas3Actions, oas3Selectors, operation} = this.props
const ParameterRow = getComponent("parameterRow")
const TryItOutButton = getComponent("TryItOutButton")
const ContentType = getComponent("contentType")
const Callbacks = getComponent("Callbacks", true)
const RequestBody = getComponent("RequestBody", true)
const isExecute = tryItOutEnabled && allowTryItOut
const isOAS3 = specSelectors.isOAS3() ||
const requestBody = operation.get("requestBody")

if (specPath.length > 1)
  return (<
    <div className="opblock-section">
      <div className="opblock-section-header">
        <div className="tab-header">
          <div onClick={() => this.toggleTab("parameters")} className={`tab-item ${this.state.parametersVisible && "active"}`}
            <h4 className="opblock-title"><span>Parameters</span></h4>
          </div>
          {operation.get("callbacks") ?
            (<div onClick={() => this.toggleTab("callbacks")} className={`tab-item ${this.state.callbackVisible && "active"}`}
              <h4 className="opblock-title"><span>Callbacks</span></h4>
            ) : null}
        </div>
      </div>
      {this.state.parametersVisible ? <div className="parameters-container">
        {parameters.count() ? <div className="opblock-description-wrapper"><p>No parameters</p></div> : 
          <div className="table-container">
            <table className="parameters">
              <thead>
                <tr>
                  <th className="col col_header parameters-col_name">Name</th>
                  <th className="col col_header parameters-col_description">Description</th>
                </tr>
              </thead>
              <tbody>
                {eachMap(parameters, (parameter, i) => {
                  return (<ParameterRow
                    fn={fn}
                    specPath={specPath.push(i.toString())}
                    getComponent={getComponent}
                    getConfigs={get_configs}
                    rawParam={parameter}
                    param={specSelectors.parameterWithMetaByIdentity(pathMethod, parameter)}
                    key={"$" + parameter.get("name")}
                    onChange={this.onChange}
                    onChangeConsumes={this.onChangeConsumesWrapper}
                    specSelectors={specSelectors}
                    specActions={specActions}
                    oas3Actions={oas3Actions}
                    oas3Selectors={oas3Selectors}
                    pathMethod={pathMethod}
                    isExecute={isExecute}/>
                })
          }
          </tbody>
          </table>
        }
        </div>
      {
        this.state.callbackVisible ? <div className="callbacks-container opblock-description-wrapper">
          <Callbacks
            callbacks={Map(operation.get("callbacks"))}
            specPath={specPath.slice(0, -1).push("callbacks")}
            getComponent={getComponent}
          />
        </div> : null}
        {isOAS3 && requestBody && this.state.parametersVisible &&
          <div className="opblock-section opblock-section-request-body">
            <div className="opblock-section-header">
              <h4 className="parameter__name ${requestBody.get("required") && "required"}">Request body</h4>
              <label>
                <ContentType
                  value={oas3Selectors.requestContentType(...pathMethod)}
                  contentTypes={requestBody.get("content", List()).keySeq()}
                  onChange={(value) => {
                    oas3Actions.setRequestContentType({ value, pathMethod })
                  }}
                  className="body-param-content-type" />
              </label>
            </div>
            <div className="opblock-description-wrapper">
              <RequestBody
                specPath={specPath.slice(0, -1).push("requestBody")}
                requestBody={requestBody}
                requestBodyValue={oas3Selectors.requestBodyValue(...pathMethod)}
                isExecute={isExecute}
                activeExamplesKey={oas3Selectors.activeExamplesMember(pathMethod)}
                contentTypes={requestBody.get("content", List()).keySeq()}
                onChange={(value) => {
                  oas3Actions.setRequestContentType({ value, pathMethod })
                }}
                className="body-param-content-type" />
              </label>
            </div>
          </div>
      

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const defaultValue = () => {
    let { specActions, param, pathMethod } = this.props

    let paramWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam)
    let emptyValue = paramWithMeta.getIn(['value'])

    return specActions.updateEmptyParamInclusion(pathMethod, paramName, paramIn, newValue)
    .then(setDefaultValue = () => {
        let { specSelectors, pathMethod, rawParam, oas3Selectors } = this.props
        let paramWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam)
        let isFormData = param.getIn(['in']) === 'formData'
        let isFormDataSupported = 'FormData' in win
        let required = param.getIn(['required'])
        let itemType = param.getIn(['items', 'type'])

        if (paramWithMeta) {
            let paramDefaultValue = paramWithMeta.getIn(['default'])
            let paramExample = paramWithMeta.getIn(['examples', 'example'])
            let paramEnum = paramWithMeta.getIn(['schema', 'enum'])
            let isDisplayParamEnum = paramEnum ? paramEnum.size > 0 : false

            if (isFormData) {
                let defaultSchema = isOAS3 ? param.getIn(['schema']) : param
                let type = defaultSchema.getIn(['type'])
                let isFormDataSupported = 'FormData' in win
                let required = param.getIn(['required'])
                let itemTypes = schema.getIn(['items', 'type'])
                let commonExt = getCommonExtensions(param)
                let extensions = getExtensions(param)
                let consumes = specSelectors.consumesOptionsFor(pathMethod)

                consumesValue = {
                    specSelectors.contentTypeValues(pathMethod).get('requestContentType')
                }

                onChange = (this.onChangeWrapper)
                onChangeConsumes = onChangeConsumes

                isExecute = (specSelectors ? specSelectors : null)
                pathMethod = (pathMethod)

                // Define
                const ModelExample = getComponent('modelExample')
                const Markdown = getComponent('Markdown')
                const ParameterExt = getComponent('ParameterExt')
                const ParameterIncludeEmpty = getComponent('ParameterIncludeEmpty')
                const ExamplesSelectValueRetainer = getComponent('ExamplesSelectValueRetainer')

                const ParameterWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam)
                let Map() = reduce((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)
                }

                _onExampleSelect = (key, /* { isSyntheticChange } = {} */) => {
                    this.props.oas3Actions.setActiveExamplesMember({
                        name: key,
                        pathMethod: this.props.pathMethod,
                        contextType: 'parameters',
                        contextName: this.getParamKey()
                    }
                )

                onChangeIncludeEmpty = (newValue) => {
                    let { specActions, param, pathMethod } = this.props
                    let paramWithMeta = param
                }
and Example Value for readonly doc
}); if (param !== undefined) {paramDefaultValue = schema.get("default");}
paramExample = param.get("example");
if (paramExample === undefined) {paramExample = param.get("x-example");}
return (paramExample !== undefined ? paramExample : param.get("example") || param.get("x-example") || "");
}

if (param !== undefined) {
  paramDefaultValue = schema.get("default");
  paramExample = param.get("example");
  if (paramExample === undefined) {paramExample = param.get("x-example");}
  return (paramExample !== undefined ? paramExample : param.get("example") || param.get("x-example") || "");
}

class Name={this.col parameters-col_name} <div class="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} /> )}
</div>
</div>

</div>
</div>

</div>
</div>

</div>
</div>


// WEBPACK FOOTER //
// WEBPACK FOOTER //

onExecute: PropTypes.func
  
  onClick=()=>{
    let { specSelectors, specActions, operation, path, method } = this.props
    specActions.validateParams([path, method])
    if (specSelectors.validateBeforeExecute([path, method])) {
      this.props.specActions.execute([operation, path, method])
    }
  }

  onChangeProducesWrapper = (val) => this.props.specActions.changeProducesValue([this.props.path, this.props.method], val)

  render() {
    return (<button className="btn execute opblock-control__btn" onClick={this.onClick}>Execute</button>)
  }

const propStyle = { color: "#999", fontStyle: "italic" }

export default class Headers extends React.Component {
  static propTypes = {
    headers: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  };

  render() {
    let { headers, getComponent } = this.props

    const Property = getComponent("Property")
    const Markdown = getComponent("Markdown")

    if (!headers || !headers.size) return null
    return (<div className="headers-wrapper">
      <h4 className="headers__title">Headers:</h4>
      <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>
        {headers.sequence().map((header) => {
          if (!Im.Map.isMap(header)) {
            return null
          }

          const description = header.getIn(['description'])
          const type = header.getIn(['schema', 'type'])
          const schemaExample = header.getIn(['schema', 'example'])

          if (!description) return null

          return (<tr key={header.key()}>
            <td className="header-col">{header.key()}</td>
            <td className="header-col">{
              !description ? null : <Markdown source={description} />
            }</td>
            <td className="header-col">{type}
              {schemaExample ? <Property propKey="Example" propVal={schemaExample} propStyle={propStyle} /> : null}</td>
          </tr>)
        })}
        </tbody>
      </table>
    </div>)
  }
}

// WEBPACK FOOTER //
// import React from 'react'
// import Im from 'immutable'
//
// export default class ThrownErrorItem extends React.Component {
//   static propTypes = {
//     error: PropTypes.object.isRequired
//   };
//   render() {
//     let { error } = this.props
//     return (<div className="thrown-error"><h4>{error.get('type')} {error.get('message')}</h4>
//   }
//}
//
// export default class SpecErrorItem extends React.Component {
//   static propTypes = {
//     error: PropTypes.object.isRequired
//   };
//   render() {
//     let { error } = this.props
//     return (<div className="spec-error"><h4>{error.get('type')} {error.get('message')}</h4>
//   }
//}
//
```javascript
error.get("path") ? <small> at {error.get("path")} </small> : null
</div>
</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 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>
          <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
}

// WEBPACK FOOTER //
// ./src/core/components/errors.jsx
```
let showOpId = id
let shown = layoutSelectors.isShown([showOpIdPrefix, showOpId])
return <OperationLink key={id} id={path + "-" + method} path={path} method={method}>
shown={shown}
showOpId={showOpId}
showOpIdPrefix={showOpIdPrefix}
href={`#operation-${showOpId}`} />
</div>
</Collapse>
</div>
</div>
</div>
</div>
</Collapse>
</div>
</div>

<h3> No operations defined in spec! </h3>
</div>
</div>
</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, 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")
getComponent("InfoUrl\")\n    const InfoBasePath = getComponent("InfoBasePath\")\n  return (\n    <div className="info">
      <hgroup className="main">
        <h2 className="title">{ title }
          { version && <VersionStamp version={version} /> }\n        </h2>
        { host || basePath ? 
          <InfoBasePath host={host} basePath={basePath} /> : null }\n        { url && <InfoUrl url={url} /> }
      </hgroup>\n      <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)}>externalDocs</Link>
      : null }
    </div>
  )\n}

Info.propTypes = {
  title: PropTypes.any,
  description: PropTypes.any,
  version: PropTypes.any,
  url: PropTypes.string
}

WEBPACK FOOTER // all // ./src/core/components/info.jsx","import React from 'react'

export default class InfoContainer extends React.Component {

  static propTypes = {
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
  }

  render () {
    const {specSelectors, getComponent} = this.props

    const info = specSelectors.info()
    const url = specSelectors.url()
    const basePath = specSelectors.basePath()
    const host = specSelectors.host()
    const externalDocs = specSelectors.externalDocs()

    const Info = getComponent("info")\n    return (\n      <div>
        {info && info.count() ? (\n          <Info info={info}
            url={url}
            host={host}
            basePath={basePath}
            externalDocs={externalDocs}/>
        ) : null}
      </div>
    )
  }
}

WEBPACK FOOTER // all // ./src/core/containers/info.jsx","import React from 'react'

export default class JumpToPath extends React.Component {
  render() {
    return null
  }
}

WEBPACK FOOTER // all // ./src/core/components/jump-to-path.jsx","import React from 'react'

export default class Footer extends React.Component {
  render() {
    return (\n      <div className="footer"></div>
    )
  }
}

WEBPACK FOOTER // all // ./src/core/components/footer.jsx","import React, {PureComponent} from 'react'
import PropTypes from 'prop-types'
import { fromJS, List } from 'immutable'
import { getSampleSchema } from 'core/utils'

const NOOP = Function.prototype

export default class ParamBody extends PureComponent {

  static propTypes = {
    param: PropTypes.object,
    onChange: PropTypes.func,
    onChangeConsumes: PropTypes.func,
    consumes: PropTypes.object,
    consumesValue: PropTypes.array
  };

  static defaultProp = {
    consumes:
  }

  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 (\n      <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 // all // ./src/core/containers/filter.jsx","import React from 'react'

export default class JumpToPath extends React.Component {

  static propTypes = {
    prop: PropTypes.bool
  };

  static defaultProp = {
    prop: true
  };

  render() {
    return (\n      <div className="jump-to-path">
        <input type="text" onChange={this.onFilterChange} value={filter === true || filter === "true" ? "" : filter} disabled={isLoading} style={inputStyle}/>
      </div>
    )
  }
}

WEBPACK FOOTER // all // ./src/core/components/jump-to-path.jsx","import React from 'react'

export default class FilterContainer extends React.Component {

  static propTypes = {
    specSelectors: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    layoutActions: 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 inputStyle = {}
    if (isFailed)
      inputStyle.color = "red"
    if (isLoading) inputStyle.color = "#aaa"

    return (\n      <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 // all // ./src/core/containers/filter.jsx","import React from 'react'
Open Source Used In MSX SD-WAN Service Pack 4.0.0

```javascript
fromJS({"application/json"}),
    param: fromJS({}),
    onChange: NOOP,
    onChangeConsumes: NOOP,

  constructor(props, context) {
    super(props, context)

    this.state = {
      isEditBox: false
    }

  }

  componentDidMount() {
    this.updateValues.call(this, this.props)
  }

  componentWillReceiveProps(nextProps) {
    this.updateValues.call(this, nextProps)
  }

  updateValues = (props) => {
    let { param, isExecute, consumesValue="" } = props
    let isXml = /xml/i.test(consumesValue)
    let isJson = /json/i.test(consumesValue)
    let paramValue = isXml ? param.get("value_xml") : param.get("value")

    if (paramValue !== undefined) {
      let val = isJson ? "{}" : paramValue
      this.setState({ value: val })
      this.onChange(val, {isXml: isXml, isEditBox: isExecute})
    } else {
      if (isXml) {
        this.onChange(this.sample("xml"), {isXml: isXml, isEditBox: isExecute})
      } else {
        this.onChange(this.sample(), {isEditBox: isExecute})
      }
    }
  }

  sample = (xml) => {
    let { param, fn:{inferSchema} } = this.props
    let schema = inferSchema(param.toJS())

    return getSampleSchema(schema, xml, {
      includeWriteOnly: true
    })
  }

  onChange = (value, { isEditBox, isXml }) => {
    this.setState({value, isEditBox})
    this._onChange(value, isXml)
  }

  _onChange = (val, isXml) => { (this.props.onChange || NOOP)(val, isXml) }

  handleOnChange = e => {
    const {consumesValue} = this.props
    const isXml = /xml/i.test(consumesValue)
    const inputValue = e.target.value
    this.onChange(inputValue, {isXml})
  }

  toggleIsEditBox = () => this.setState( state => ({isEditBox: !state.isEditBox}))

  render() {
    let {
      onChangeConsumes,
      param,
      isExecute,
      specSelectors,
      pathMethod,
      getComponent,
    } = this.props

    const Button = getComponent("Button")
    const TextArea = getComponent("TextArea")
    const HighlightCode = getComponent("highlightCode")
    const ContentType = getComponent("contentType")
    // for domains
    let parameter = specSelectors ? specSelectors.parameterWithMetaByIdentity(pathMethod, param) : param
    let errors = parameter.get("errors", List())
    let consumesValue = specSelectors.contentTypeValues(pathMethod).get("requestContentType")
    let consumes = this.props.consumes && this.props.consumes.size ? this.props.consumes : ParamBody.defaultProp.consumes

    let { value, isEditBox } = this.state

    return (
      <div
        className="body-param" data-param-name={param.get("name")} data-param-in={param.get("in")}>
          {isEditBox && isExecute
            ? <TextArea className={ "body-param__text" + ( errors.count() ? "invalid" : "")} value={value} onChange={ this.handleOnChange }/>
            : (value && <HighlightCode
                               className="body-param__example"
                               value={ value }/>)
        }
        <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.toggleIsEditBox}>{ isEditBox ? "Cancel" : "Edit"}
                         </Button>
                         </div>
          }
          <label htmlFor="">
            <span>Parameter content type</span>
            <ContentType value={ consumesValue } contentTypes={ consumes }
                          onChange={onChangeConsumes} className="body-param-content-type" />
          </label>
        </div>
      </div>
    )
  }
}


// WEBPACK FOOTER //
// ./src/core/components/param-body.jsx
```

```javascript
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"
                     style={{ whiteSpace: "normal" }} value={curl} onfocus={(e) => e.target.select()}></textarea>
        </div>
      </div>
    )
  }

}


// WEBPACK FOOTER //
// ./src/core/components/curl.jsx
```
for(let [k,v] of request.get("body").entrySeq()) {
  if (v instanceof File) {
    console.log(`\$\{v.name\}: \$\{v.type\}`)
    if (v.type === "text/plain")
      curlified.push(`--upload-file \"\${v.name}\"`)  
     else  
      curlified.push(`-F \"\${k}\"=@\${v.name}\"`)  
    
  } else {
    curlified.push(`-F \"\${k}\"=\"\${v}\"`)  
  }
}

return curlified.join(' ')

// WEBPACK FOOTER //
// ./src/services/curlify.js
Open Source Used in MSX SD-WAN Service Pack 4.0.0

```
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,
  }

  constructor(props, context) {
    super(props, context)
    let { defaultModelRendering } = this.props
    let activeTab = defaultModelRendering

    this.state = {
      activeTab
    }

    this.activeTab = (e) => {
      this.setState({
        activeTab: e.target.dataset.name
      })
    }

    this.componentWillReceiveProps(nextProps) {
      if (nextProps.specSelectors !== this.props.specSelectors) {
        this.setState({
          activeTab: undefined
        })
      }
    }

    this.render = () => {
      let { getComponent, specSelectors, schema, example, isExecute, getConfigs, specPath } = this.props
      let activeTab = this.state.activeTab

      return <div className="model-example">
        <ul className="tab">
          <li className={"tabitem" + (activeTab === "example" ? " active" : "")}>
            <a className="tablinks" data-name="example" onClick={this.activeTab}>{isExecute ? "Edit Value" : "Example Value"}</a>
          </li>
          {schema ? <li className={"tabitem" + (activeTab === "model" ? " active" : "")}>
            <a className={"tablinks" + (isExecute ? " inactive" : "")} data-name="model" onClick={this.activeTab}>
              {isOAS3 ? "Model" : "Schema"}
            </a>
          </li> : null }
        </ul>
        {activeTab === "example" ? (example ? example : (<HighlightCode value="(no example available)" />)) : null }
        {activeTab === "model" && <ModelWrapper schema={schema} getComponent={getComponent} getConfigs={getConfigs} specPath={specPath} expandDepth={this.props.expandDepth} />}
      </div>
    }
  }
}
```

```
import React, { Component, } from 'react'
import PropTypes from 'prop-types'

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,
    layoutSelectors: PropTypes.object.isRequired
  }

  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 prop is present, we'll have deepLinking for it
      expanded = this.props.layoutSelectors.isShown(["models",this.props.name])
    }

    return <div className="model-box">
      <Model { ...this.props } getConfigs={getConfigs} expanded={expanded} depth={1} onToggle={this.onToggle} expandDepth={this.props.expandDepth} />
    </div>
  }
}
```

```
module.exports = require("react-immutable-pure-component");

```

```

```jsx
import React from 'react';
import { List } from 'immutable';
import ImPropTypes from 'react-immutable-proptypes';

const braceOpen = '{
const braceClose = '}';

export default class ObjectModel extends React.Component {
  static propTypes = {
    schema: React.PropTypes.object.isRequired,
    getComponent: React.PropTypes.func.isRequired,
    getConfigs: React.PropTypes.func.isRequired,
    expanded:
  }

  static defaultProps = {
    expanded: false,
  }

  constructor(props)
```

PropTypes.bool,
    onToggle: PropTypes.func,
    specSelectors: PropTypes.object.isRequired,
    name: PropTypes.string,
    displayNames: PropTypes.string,
    isRef: PropTypes.bool,
    expandDepth: PropTypes.number,
    depth: PropTypes.number,
    specPath: ImPropTypes.list.isRequired,
    render(): {}
  }

  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 showExtensions = getConfigs()
    let description = schema.get("description")
    let title = schema.get("title") || displayName || name
    let requiredProperties = schema.get("required")
    const JumpToPath = getComponent("JumpToPath")
    const Markdown = getComponent("Markdown")
    const Model = getComponent("Model")
    const ModelCollapse = getComponent("ModelCollapse")
    const JumpToPathSection = () => {
      return <span className="model-jump-to-path"><JumpToPath specPath={specPath} /></span>
    }
    const collapsedContent = (<span className="brace-open object">{ braceOpen }</span>...<span className="brace-close">
      { 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> }
      <span className="model-title__text">{ title }</span>
    </span>

    return <span className="model">
      <ModelCollapse
        modelName={name}
        title={titleEl}
        onToggle={onToggle}
        expanded={expanded ? true : depth <= expandDepth}
        collapsedContent={collapsedContent}
        specPath={specPath}
        specPath={specPath.push("properties")}
        specPath={specPath.push("additionalProperties")}
        specPath={specPath.push("properties").key}>
        <span className="brace-open object">{ braceOpen }
          { !isRef ? null : <JumpToPathSection /> }
          <span className="inner-object">
            { !description ? null : <tr style={{ color: "#666", fontWeight: "bold" }}>
              <td style={{ fontWeight: "bold" }}>description:</td>
              <td><Markdown source={description} /></td>
            </tr> }
            { !(properties && properties.size) ? null : properties.entrySeq().map((key, value) => {
              let isDeprecated = isOAS3() && value.get("deprecated")
              let isRequired = List.isList(requiredProperties) && requiredProperties.contains(key)
              let propertyStyle = {
                verticalAlign: "top", paddingRight: "0.2em" }
              if (isRequired) {
                propertyStyle.fontWeight = "bold"
              }
              return (<tr key={key} className={isDeprecated && "deprecated"}>
                <td style={propertyStyle}>{key} {isRequired && <span style={{ color: "red" }}>*</span>}</td>
                <td style={{ verticalAlign: "top" }}>{JSON.stringify(value.toJS ?? value)}</td>
              </tr>)
            }).toArray() }
            { !showExtensions ? null : <tr>&nbsp;</tr> }
            { !showExtensions ? null : <tr style={{ color: "#777", verticalAlign: "top" }}>key: {JSON.stringify(normalizedValue)}
          </span></td>
          <td style={{ verticalAlign: "top" }}>{JSON.stringify(normalizedValue)}
        </td>
      </span>
    </span>
const Markdown = getComponent("Markdown")
const EnumModel = getComponent("EnumModel")
const Property = getComponent("Property")
return <span className="model">
  <span className="prop">
    { title && <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}>xml: </span>{xml.entrySeq().map((key, v) => <span key={`${key}-${v}`} style={propStyle}>&nbsp;&nbsp;&nbsp;{key}: {String(v)}</span>).toArray()}) : null }
    { enumArray && <EnumModel value={enumArray} getComponent={getComponent} />}
  </span>
</span>
loadingMessage = null

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()

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>
)

const noop = () => {}
const JsonSchemaPropShape = {
  getComponent: PropTypes.func.isRequired,
  value: PropTypes.any,
  onChange: PropTypes.func,
  keyName: PropTypes.any,
  fn: PropTypes.object.isRequired,
  schema: PropTypes.object,
  errors: ImPropTypes.list,
  required: PropTypes.bool,
  dispatchInitialValue: PropTypes.bool,
  description: PropTypes.any,
  disabled: PropTypes.bool,
}

const JsonSchemaDefaultProps = {
  value: '',
  onChange: noop,
  schema: {},
  keyName: '',
  required: false,
  errors: List().toJS ? List().toJS() : [],
}

export class JsonSchemaForm extends Component {

  static propTypes = JsonSchemaPropShape
  static defaultProps = JsonSchemaDefaultProps

  componentDidMount() {
    const { dispatchInitialValue, value, onChange, getComponent, fn, disabled } = this.props
    if (dispatchInitialValue) { 
      onChange(value, this.props.keyName)
    }
  }

  render() {
    let { getComponent, value, schema, errors, required, description, disabled } = this.props
    return (<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>)
  }
}

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
    return (<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>)
  }
}
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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/pool/ChannelPool.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 [ChannelPipeline].

Sub-types

- [ChannelInboundHandler] to handle inbound I/O events,
- [ChannelOutboundHandler] to handle outbound I/O operations,

Alternatively, the following adapter classes are provided for your convenience:

- [ChannelInboundHandlerAdapter] to handle inbound I/O events,
- [ChannelOutboundHandlerAdapter] to handle outbound I/O operations,
- [ChannelDuplexHandler] to handle both inbound and outbound events

For more information, please refer to the documentation of each subtype.
*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 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
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 SimpleChannelInboundHandler&lt;Message&gt; {
*     private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");
*     ...
* }
* @code @Override
* public void channelRead(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 (Boolean.TRUE.equals(attr.get())) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
*     ...
* }
* </pre>
* Now that the state of the handler is attached to the ChannelHandlerContext, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
*     private static final DataServerHandler SHARED = new DataServerHandler();
*     
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", SHARED);
*     }
* }
* </pre>
* The @Sharable annotation

* In the example above which used an 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/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/socket/nio/NioServerSocketChannel.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/DefaultOioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/bootstrap/FailedChannel.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/PendingBytesTracker.java

1.2201 libcap-ng 0.7.9-2

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1.2205 jboss-logging 3.4.1.Final

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  jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/LineSeparator.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
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/**
** Enumeration of supported Base64 dialects.
** <p>
** The internal lookup tables in this class has been derived from
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jar/io/netty/handler/codec/CharSequenceValueConverter.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/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
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  jar/io/netty/handler/codec/compression/LzfEncoder.java
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  jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
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  jar/io/netty/handler/codec/compression/Bzip2Constants.java
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  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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  jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
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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
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 */

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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>
* | lengthFieldOffset | lengthFieldLength | lengthAdjustment | initialBytesToStrip |
* | 0 | 2 | 0 | 0 (= do not strip header) |
* </pre>

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

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* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

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* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* | Length | Actual Content |
* | 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.

* 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.

* 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>

* <h3>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.

lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
initialBytesToStrip = 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" |
+-------------------------------+-------------------------------+

seen in path(s):
1.2207 wildfly-elytron-x500-principal
1.11.4.Final
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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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1.2208 jackson-module-scala 2.4.1

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1.2209 ncurses 6.1+20181013 2+deb10u2

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp$
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1.2210 neo4j-consistency-check 3.5.14
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Tests included here are based on build output generated by the six-speed benchmark suite.

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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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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.

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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* 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
*/

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 *
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 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 *
 * <p>View technologies that support this contract can obtain an instance to
 * delegate to via {@link RequestContext#getRequestDataValueProcessor()}.  
 * @author Rossen Stoyanchev
 * @since 3.1
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  jar/org/springframework/web/servlet/FlashMap.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-URL: 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=macosx;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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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/SessionTicketKey.java
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1.2230 i2c-tools 4

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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.

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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
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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
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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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
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/Closer.java
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  jar/com/google/common/collection/AbstractMultimap.java
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  jar/com/google/common/collection/AllEqualOrdering.java
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  jar/com/google/common/reflect/ClassPath.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingImmutableList.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/DescendingMultiset.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/Parameter.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EvictingQueue.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19.0-sources-5-jar/com/google/common/io/CountingOutputStream.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/annotations/package-info.java
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  jar/com/google/common/collection/UnmodifiableListIterator.java
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  jar/com/google/common/collection/SortedMapDifference.java
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  jar/com/google/common/collection/RowSortedTable.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/AbstractSequentialIterator.java
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addHostControllerJavaOptions(final Iterable<String> args) { public DomainCommandBuilder
setHostControllerJavaOptions(final String... args) { public DomainCommandBuilder
addHostControllerJavaOptions(final Iterable<String> args) { public DomainCommandBuilder
addProcessControllerJavaOption(final String arg) { public DomainCommandBuilder
setProcessControllerJavaOptions(final String... args) { public DomainCommandBuilder
addProcessControllerJavaOptions(final Iterable<String> args) { public DomainCommandBuilder
setProcessControllerJavaOptions(final Iterable<String> args) { public DomainCommandBuilder
setServerJavaHome(final String javaHome) { public DomainCommandBuilder
setServerJavaHome(final Path javaHome) {`n

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1.2242 protobuf-java 2.5.0

1.2243 wildfly-remoting 11.1.1.Final

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1.2244 docker 18.03.0 r0

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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

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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

------
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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5.0.1.Final

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lib/kdb/kdb_log.c
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1.2254 alpine-keys 2.2-r0

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1.2255 pycrypto 2.6.1

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1.2256 wildfly-ormtransformer 19.1.0.Final

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1.2257 jboss-modules 1.10.0.Final

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1.2259 jackson-xc 2.9.8

1.2260 cyrus-sasl 2.1.26
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Gocheck - A rich testing framework for Go

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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
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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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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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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.

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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.

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Gocheck - A rich testing framework for Go

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/* $Id: SetNestedPropertiesRule.java 472836 2006-11-09 10:06:56Z skitching $ *
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   jar/org/apache/commons/digester/RuleSetBase.java
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  jar/org/apache/commons/digester/plugins стратег/ы/FinderFromDfltClass.java
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/* $Id: PluginAssertionFailure.java 476205 2006-11-17 16:43:10Z dennisl $
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/* $Id: DigesterLoadingException.java 476205 2006-11-17 16:43:10Z dennisl $ */

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1.2289 wildfly-core-management-subsystem

11.1.1.Final

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1.2292 kerberos 1.13.2+dfsg 5ubuntu2.1

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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
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/gdsp_name.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/iprop.x
<include>/iprop_hdr.h
<kadmin/server/ipropd_svc.c
<lib/kdb/iprop.x
<include>/iprop_hdr.h
<kadmin/server/ipropd_svc.c
<lib/kdb/iprop.x
<include>/iprop_hdr.h
<kadmin/server/ipropd_svc.c
<lib/kdb/iprop.x
<include>/iprop_hdr.h
<kadmin/server/ipropd_svc.c
```

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

```
.. parsed-literal::

    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
    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:

.. 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
   kprop/kproplog.c

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        DOCUMENTATION_OPTIONS = {
            URL_ROOT:    '../',
            VERSION:     '1.17',
            COLLAPSE_INDEX: false,
            FILE_SUFFIX: '.html',
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"src/lib/gssapi", including the following files:

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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
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
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gsssd_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
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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======================================================================

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"src/plugins/preauth/spake/edwards25519.c":

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import os
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

Open Source Used In MSX SD-WAN Service Pack 4.0.0 22472
# 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('/'):  # Fix: fname = fname[1:] should be fname = fname[2:] in the previous version.
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

.. _mitK5license:

MIT Kerberos License information
================================
1.2293 neo4j-jmx 3.5.14
1.2293.1 Available under license:

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1.2305 debianutils 4.8.6.1

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1.2306 linux-kernel 4.9.57

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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.)

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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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"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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(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.

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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.)

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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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
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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.

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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_nicst() 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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* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1.jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1.jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1.jar/io/netty/handler/codec/EncoderException.java

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 */

/**
 * Enumeration of supported Base64 dialects.
 * 
 * The internal lookup tables 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>.
 */

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* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/base64/Base64Dialect.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>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * </pre>
 */
* 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>

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+ +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +--------+----------------+ +----------------+

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+ +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +--------+----------------+ +--------+----------------+
* </pre>

* 2 bytes length field at offset 0, strip header

* 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.

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+ +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +--------+----------------+ +----------------+

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+ +----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +--------+----------------+ +----------------+

* 2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message

* 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.

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+ +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
The following message is a simple variation of the first example. An extra header value is prepended to the message. \texttt{lengthAdjustment} is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

\begin{verbatim}
<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" |
+----------+----------+----------------+      +----------+----------+----------------+
</verbatim>

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 \texttt{lengthAdjustment} so that the decoder counts the extra header into the frame length calculation.

\begin{verbatim}
<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" |
+----------+----------+----------------+      +----------+----------+----------------+
</verbatim>

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 \texttt{lengthFieldOffset} 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)
  *
  * 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>`
  *
  * 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/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java

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jar/io/netty/handler/codec/ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/CharSequenceValueConverter.java

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jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
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   * /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java
   * /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
1.2313 jetty-http 9.4.29.v20200521

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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

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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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* /opt/ws_local/PERMITS_SQL/1094804988_1601319665.49/0/wildfly-elytron-credential-store-1-11-4-final-
sources-jar/org/wildfly/security/credential/store/CredentialStorePermission.java
* /opt/ws_local/PERMITS_SQL/1094804988_1601319665.49/0/wildfly-elytron-credential-store-1-11-4-final-
sources-jar/org/wildfly/security/credential/store/CredentialStoreSpi.java
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sources-jar/org/wildfly/security/credential/store/CredentialStore.java
* /opt/ws_local/PERMITS_SQL/1094804988_1601319665.49/0/wildfly-elytron-credential-store-1-11-4-final-
sources-jar/org/wildfly/security/credential/store/CredentialStoreException.java
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Portions of the client are based on code at:
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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscedex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js
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- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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>.'
build_requires:
  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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copyright.t

=head1 DESCRIPTION

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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.
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;
}

1.2324 netty-codec-http 4.1.45.Final

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Adaptation of http://bjoern.hoehrmann.de/utf-8/decoder/dfa/

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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

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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

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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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

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

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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>

* 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 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) {
*       {@link Channel} ch = e.getChannel();
*       if (message instanceof LoginMessage) {
*           authenticate((LoginMessage) message);
*           loggedIn = true;
*       } else (message instanceof GetDataMessage) {
*           if (loggedIn) {
*               ch.write(fetchSecret((GetDataMessage) message));
*           } else {
*               fail();
*           }
*       }
*   }
*   ...
* }
* </pre>
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 @link ChannelInitializer#initChannel(Channel).
public class DataServerInitializer extends @link ChannelInitializer{Channel} {
    @code @Override
    public void initChannel(@link Channel channel) {
        channel.pipeline().addLast("handler", "new DataServerHandler()";
    }
}
```

**Using @link 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:

```java
public interface Message {
    // your methods here
}

@code @Sharable
public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {
    private final @link AttributeKey<Boolean> auth = @link AttributeKey.valueOf(String) AttributeKey.valueOf("auth");

    @code @Override
    public void channelRead(@link ChannelHandlerContext ctx, Message message) {
        @link Attribute<Boolean> attr = ctx.attr(auth);
        @link Channel ch = ctx.channel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage) {
            if (@b>Boolean.TRUE.equals(attr.get())@b>) {
                ch.write(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
```
Now that the state of the handler is attached to the \textit{\@link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends \textit{\@link ChannelInitializer}\{\textit{\@link Channel}\} {

    private static final DataServerHandler \textit{SHARED} = new DataServerHandler();

    \textit{\@code @Override}
    public void initChannel({\textit{\@link Channel}} channel) {
        channel.pipeline().addLast("handler", \textit{SHARED});
    }
}
```

\textbf{The \textit{\@code @Sharable} annotation}

In the example above which used a \textit{\@link AttributeKey}, you might have noticed the \textit{\@code @Sharable} annotation.

If a \textit{\@link ChannelHandler} is annotated with the \textit{\@code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more \textit{\@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.

\textbf{Additional resources worth reading}

Please refer to the \textit{\@link ChannelHandler}, and \textit{\@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/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1.jar/org/springframework/cloud/openfeign/FeignLoggerFactory.java

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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/support/GenericApplicationContext.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/annotation/Async.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/ResourceLoaderAware.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/annotation/Scheduled.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/validation/DataBinder.java
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jar/org/springframework/ui/ModelMap.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 programmatically
 * 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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 */

/**
 * {@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.
 *
 * <p>Exposes the {@code MBeanServer} for bean references.
 *
 * <p>This {@link FactoryBean} is a direct alternative to {@link MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's {@link MBeanServer}.
 *
 * <p>See the javadocs for WebSphere's
 *
 * and
 *
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/annotation/AbstractCachingConfiguration.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/ejb/access/LocalStatelessSessionProxyFactoryBean.java
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jar/org/springframework/validation/Errors.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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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1- jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1- jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1- jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1- jar/org/springframework/context/i18n/TimezoneAwareLocaleContext.java

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- `/opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1.jar/org/springframework/ui/context/support/UiApplicationContextUtils.java`
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jar/org/springframework/jndi/JndiLocatorDelegate.java
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1.2394 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

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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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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. 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.
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/LinkedHashTreeMap.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/JsonTreeReader.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonParseException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonPrimitive.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonSerializationContext.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/JsonAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
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jar/com/google/gson/stream/JsonReader.java
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jar/com/google/gson/internal/bind/TreeTypeAdapter.java
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  jar/com/google/gson/JsonSyntaxException.java
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1.2418 libunistring 0.9.10 1

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Upstream-Name: libunistring
Upstream-Contact: Bruno Haible <bruno@clisp.org>
Source: http://ftp.gnu.org/gnu/libunistring/

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* 2010-01-16 mrab Re-written
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Metadata-Version: 1.1
Name: regex
Version: 2020.5.7
Summary: Alternative regular expression module, to replace re.
Home-page: https://bitbucket.org/mrabarnett/mrab-regex
Author: Matthew Barnett
Author-email: regex@mrabarnett.plus.com
License: Python Software Foundation License
Description: Introduction

This regex implementation is backwards-compatible with the standard 're' module, but offers additional functionality.

Note
----

The re module's behaviour with zero-width matches changed in Python 3.7, and this module will follow that behaviour when compiled for Python 3.7.

Old vs new behaviour
---------------------
In order to be compatible with the re module, this module has 2 behaviours:

* **Version 0** behaviour (old behaviour, compatible with the re module):

  Please note that the re module's behaviour may change over time, and I'll endeavour to match that behaviour in version 0.

  * Indicated by the `VERSION0` or `V0` flag, or `(?V0)` in the pattern.

  * Zero-width matches are not handled correctly in the re module before Python 3.7. The behaviour in those earlier versions is:

    * `\.` won't split a string at a zero-width match.

    * `\.\.` will advance by one character after a zero-width match.

    * Inline flags apply to the entire pattern, and they can't be turned off.

    * Only simple sets are supported.

    * Case-insensitive matches in Unicode use simple case-folding by default.

* **Version 1** behaviour (new behaviour, possibly different from the re module):

  * Indicated by the `VERSION1` or `V1` flag, or `(?V1)` in the pattern.

  * Zero-width matches are handled correctly.

  * Inline flags apply to the end of the group or pattern, and they can be turned off.

  * Nested sets and set operations are supported.

  * Case-insensitive matches in Unicode use full case-folding by default.

If no version is specified, the regex module will default to `regex.DEFAULT_VERSION`.

Case-insensitive matches in Unicode
-----------------------------------

The regex module supports both simple and full case-folding for case-insensitive matches in Unicode. Use of full case-folding can be turned on using the `FULLCASE` or `F` flag, or `(?f)` in the pattern. Please note that this flag affects how the `IGNORECASE` flag works; the `FULLCASE` flag itself does not turn on case-insensitive matching.

In the version 0 behaviour, the flag is off by default.

In the version 1 behaviour, the flag is on by default.
Nested sets and set operations
-------------------------------

It's not possible to support both simple sets, as used in the re module, and nested sets at the same time because of a difference in the meaning of an unescaped "\[" in a set.

For example, the pattern `\[[a-z]--[aeiou]\]` is treated in the version 0 behaviour (simple sets, compatible with the re module) as:

* Set containing "[" and the letters "a" to "z"
* Literal "--"
* Set containing letters "a", "e", "i", "o", "u"
* Literal "]"

but in the version 1 behaviour (nested sets, enhanced behaviour) as:

* Set which is:
  * Set containing the letters "a" to "z"
  * but excluding:
    * Set containing the letters "a", "e", "i", "o", "u"

Version 0 behaviour: only simple sets are supported.

Version 1 behaviour: nested sets and set operations are supported.

Flags
-----

There are 2 kinds of flag: scoped and global. Scoped flags can apply to only part of a pattern and can be turned on or off; global flags apply to the entire pattern and can only be turned on.

The scoped flags are: ``FULLCASE``, ``IGNORECASE``, ``MULTILINE``, ``DOTALL``, ``VERBOSE``, ``WORD``.

The global flags are: ``ASCII``, ``BESTMATCH``, ``ENHANCEMATCH``, ``LOCALE``, ``POSIX``, ``REVERSE``, ``UNICODE``, ``VERSION0``, ``VERSION1``.

If neither the ``ASCII``, ``LOCALE`` nor ``UNICODE`` flag is specified, it will default to ``UNICODE`` if the regex pattern is a Unicode string and ``ASCII`` if it's a bytestring.

The ``ENHANCEMATCH`` flag makes fuzzy matching attempt to improve the fit of the next match that it finds.
The `BESTMATCH` flag makes fuzzy matching search for the best match instead of the next match.

Notes on named capture groups
-------------------------------

All capture groups have a group number, starting from 1.

Groups with the same group name will have the same group number, and groups with a different group name will have a different group number.

The same name can be used by more than one group, with later captures 'overwriting' earlier captures. All of the captures of the group will be available from the `captures` method of the match object.

Group numbers will be reused across different branches of a branch reset, eg. ```((?!first)(second))``` has only group 1. If capture groups have different group names then they will, of course, have different group numbers, eg. ```(?!(?P<foo>first)(?!P<bar>second))``` has group 1 ("foo") and group 2 ("bar").

In the regex ```(\s+)(?|(?P<foo>[A-Z]+)|(?P<foo>[0-9]+))``` there are 2 groups:

* ```(\s+)``` is group 1.
* ```(?P<foo>[A-Z]+)``` is group 2, also called "foo".
* ```(\w+)``` is group 2 because of the branch reset.
* ```(?P<foo>[0-9]+)``` is group 2 because it's called "foo".

If you want to prevent ```(\w+)``` from being group 2, you need to name it (different name, different group number).

Multithreading
--------------

The regex module releases the GIL during matching on instances of the built-in (immutable) string classes, enabling other Python threads to run concurrently. It is also possible to force the regex module to release the GIL during matching by calling the matching methods with the keyword argument ```concurrent=True```. The behaviour is undefined if the string changes during matching, so use it *only* when it is guaranteed that that won't happen.

Unicode
-------

This module supports Unicode 13.0.0.

Full Unicode case-folding is supported.

Additional features
-------------------
The issue numbers relate to the Python bug tracker, except where listed as "Hg issue".

Added support for lookaround in conditional pattern (Hg issue 163 <https://bitbucket.org/mrabarnett/mrab-regex/issues/163>_

The test of a conditional pattern can now be a lookaround.

Examples:

.. sourcecode:: python

   >>> regex.match(r'(?!\d)\d+\|w+', '123abc')
   <regex.Match object; span=(0, 3), match='123'>
   >>> regex.match(r'(?!(?=\d)\d+\|w+)', 'abc123')
   <regex.Match object; span=(0, 6), match='abc123'>

This is not quite the same as putting a lookaround in the first branch of a pair of alternatives.

Examples:

.. sourcecode:: python

   >>> print(regex.match(r'(?:(?=\d)\d+\b|w+)', '123abc'))
   <regex.Match object; span=(0, 6), match='123abc'>
   >>> print(regex.match(r'(?!\d)\d+\|w+', '123abc'))
   None

In the first example, the lookaround matched, but the remainder of the first branch failed to match, and so the second branch was attempted, whereas in the second example, the lookaround matched, and the first branch failed to match, but the second branch was **not** attempted.

Added POSIX matching (leftmost longest) (Hg issue 150 <https://bitbucket.org/mrabarnett/mrab-regex/issues/150>_

The POSIX standard for regex is to return the leftmost longest match. This can be turned on using the `POSIX` flag (``(?p)``).

Examples:

.. sourcecode:: python

   >>> # Normal matching.
   >>> regex.search(r'Mr|Mrs', 'Mrs')

---

Open Source Used In MSX SD-WAN Service Pack 4.0.0 23435
Note that it will take longer to find matches because when it finds a match at a certain position, it won't return that immediately, but will keep looking to see if there's another longer match there.

Added ``"(?DEFINE)...)`` (`Hg issue 152 <https://bitbucket.org/mrabarnett/mrab-regex/issues/152>`_)

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```python
>>> m = regex.search(r'(#w\w\K\w\w\w)', 'abcdef')
>>> m[0]
'cde'
>>> m[1]
'abcdef'

```
The ``LOCALE`` flag is intended for legacy code and has limited support. You're still recommended to use Unicode instead.

Added partial matches (`Hg issue 102 <https://bitbucket.org/mrabarnett/mrab-regex/issues/102>`_)

A partial match is one that matches up to the end of string, but that string has been truncated and you want to know whether a complete match could be possible if the string had not been truncated.

Partial matches are supported by ``match``, ``search``, ``fullmatch`` and ``finditer`` with the ``partial`` keyword argument.

Match objects have a ``partial`` attribute, which is ``True`` if it's a partial match.

For example, if you wanted a user to enter a 4-digit number and check it character by character as it was being entered:

.. sourcecode:: python

```python
>>> pattern = regex.compile(r'\d{4}')

>>> # Initially, nothing has been entered:
>>> print(pattern.fullmatch('', partial=True))
<regex.Match object; span=(0, 0), match='', partial=True>

>>> # An empty string is OK, but it's only a partial match.
>>> # The user enters a letter:
>>> print(pattern.fullmatch('a', partial=True))
None

>>> # It'll never match.

>>> # The user deletes that and enters a digit:
>>> print(pattern.fullmatch('1', partial=True))
<regex.Match object; span=(0, 1), match='1', partial=True>

>>> # It matches this far, but it's only a partial match.

>>> # The user enters 2 more digits:
>>> print(pattern.fullmatch('123', partial=True))
<regex.Match object; span=(0, 3), match='123', partial=True>

>>> # It matches this far, but it's only a partial match.

>>> # The user enters another digit:
>>> print(pattern.fullmatch('1234', partial=True))
<regex.Match object; span=(0, 4), match='1234'>

>>> # It's a complete match.

>>> # If the user enters another digit:
>>> print(pattern.fullmatch('12345', partial=True))
```
None

>>> # It's no longer a match.

>>> # This is a partial match:
>>> pattern.match('123', partial=True).partial
True

>>> # This is a complete match:
>>> pattern.match('1233', partial=True).partial
False

``*`` operator not working correctly with sub() (Hg issue 106 <https://bitbucket.org/mrabarnett/mrab-regex/issues/106>_

``*`` operator not working correctly with sub() (Hg issue 106 <https://bitbucket.org/mrabarnett/mrab-regex/issues/106>_

Sometimes it's not clear how zero-width matches should be handled. For example, should ``.*`` match 0 characters directly after matching >0 characters?

Examples:

```python
# Python 3.7 and later
>>> regex.sub('.*', 'x', 'test')
'xx'
>>> regex.sub('.*?', '|', 'test')
'|

# Python 3.6 and earlier
>>> regex.sub('(?V0).*', 'x', 'test')
x'
>>> regex.sub('(?V1).*', 'x', 'test')
'x'  
>>> regex.sub('(?V0).*?', '|', 'test')
'|test|
>>> regex.sub('(?V1).*?', '|', 'test')
'|test|
```

Added `capturesdict` (Hg issue 86 <https://bitbucket.org/mrabarnett/mrab-regex/issues/86>_

``capturesdict`` is a combination of ``groupdict`` and ``captures``:

``groupdict`` returns a dict of the named groups and the last capture of those groups.

``captures`` returns a list of all the captures of a group
``capturesdict`` returns a dict of the named groups and lists of all the captures of those groups.

Examples:

.. sourcecode:: python

    >>> m = regex.match(r"(?P<word>\w+) (?P<digits>\d+)(\n)+", "one 1ntwo 2nthree 3n")
    >>> m.groupdict()
    {'word': 'three', 'digits': '3'}
    >>> m.captures("word")
    ['one', 'two', 'three']
    >>> m.captures("digits")
    ['1', '2', '3']
    >>> m.capturesdict()
    {'word': ['one', 'two', 'three'], 'digits': ['1', '2', '3']}

Allow duplicate names of groups (`Hg issue 87 <https://bitbucket.org/mrabarnett/mrab-regex/issues/87>`_)

Group names can now be duplicated.

Examples:

.. sourcecode:: python

    >>> # With optional groups:
    >>>
    >>> # Both groups capture, the second capture 'overwriting' the first.
    >>> m = regex.match(r"(?P<item>\w+)? or (?P<item>\w+)?", "first or second")
    >>> m.group("item")
    'second'
    >>> m.captures("item")
    ['first', 'second']
    >>> # Only the second group captures.
    >>> m = regex.match(r"(?P<item>\w+)? or (?P<item>\w+)?", " or second")
    >>> m.group("item")
    'second'
    >>> m.captures("item")
    ['second']
    >>> # Only the first group captures.
    >>> m = regex.match(r"(?P<item>\w+)? or (?P<item>\w+)?", "first or ")
    >>> m.group("item")
    'first'
    >>> m.captures("item")
    ['first']
    >>> # With mandatory groups:
Both groups capture, the second capture 'overwriting' the first.

```python
m = regex.match(r"(?P<item>\w*) or (?P<item>\w*)", "first or second")
```

'second'
```
>>> m.captures("item")
['first', 'second']
```

Again, both groups capture, the second capture 'overwriting' the first.

```python
m = regex.match(r"(?P<item>\w*) or (?P<item>\w*)", " or second")
```

'second'
```
>>> m.captures("item")
['', 'second']
```

And yet again, both groups capture, the second capture 'overwriting' the first.

```python
m = regex.match(r"(?P<item>\w*) or (?P<item>\w*)", "first or ")
```

''
```
>>> m.captures("item")
['first', '']
```

Added `fullmatch` (`issue #16203 <https://bugs.python.org/issue16203>`_)

```
`fullmatch` behaves like `match`, except that it must match all of the string.
```

Examples:

```
.. sourcecode:: python

>>> print(regex.fullmatch(r"abc", "abc").span())
(0, 3)
```

```
>>> print(regex.fullmatch(r"abc", "abcx"))
None
```

```
>>> print(regex.fullmatch(r"abc", "abcx", endpos=3).span())
(0, 3)
```

```
>>> print(regex.fullmatch(r"abc", "xabcy", pos=1, endpos=4).span())
(1, 4)
```

```
>>> regex.match(r"a.*?", "abcd").group(0)
'a'
```

```
>>> regex.fullmatch(r"a.*?", "abcd").group(0)
'abcd'
```

Added `subf` and `subfn`

```
`subf` and `subfn` are alternatives to `sub` and `subn` respectively. When passed a replacement string, they treat it as a format string.
```
Examples:

.. sourcecode:: python

    >>> regex.sub(r"(\w+) (\w+)", "{0} => {2} {1}", "foo bar")
    'foo bar => bar foo'
    >>> regex.sub(r"(?P<word1>\w+) (?P<word2>\w+)", "{word2} {word1}", "foo bar")
    'bar foo'

Added ``expandf`` to match object
~~~~~~~~~~~~~~~~~~~~~~~~~~~~
``expandf`` is an alternative to ``expand``. When passed a replacement string, it treats it as a format string.

Examples:

.. sourcecode:: python

    >>> m = regex.match(r"(\w+) (\w+)", "foo bar")
    >>> m.expandf("{0} => {2} {1}")
    'foo bar => bar foo'
    >>>
    >>> m = regex.match(r"(?P<word1>\w+) (?P<word2>\w+)", "foo bar")
    >>> m.expandf("{word2} {word1}")
    'bar foo'

Detach searched string
~~~~~~~~~~~~~~~~~~~~~~
A match object contains a reference to the string that was searched, via its ``string`` attribute. The ``detach_string`` method will 'detach' that string, making it available for garbage collection, which might save valuable memory if that string is very large.

Example:

.. sourcecode:: python

    >>> m = regex.search(r"\w+", "Hello world")
    >>> print(m.group())
    Hello
    >>> print(m.string)
    Hello world
    >>> m.detach_string()
    >>> print(m.group())
    Hello
    >>> print(m.string)
    None
Recursive patterns (`Hg issue 27 <https://bitbucket.org/mrabarnett/mrab-regex/issues/27>`_)
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

Recursive and repeated patterns are supported.

``(?R)`` or ``(?0)`` tries to match the entire regex recursively. ``(?1)``, ``(?2)``, etc, try to match the relevant capture group.

``(?&name)` ` tries to match the named capture group.

Examples:

.. sourcecode:: python

    >>> regex.match(r"(Tarzan|Jane) loves (?1)", "Tarzan loves Jane").groups()
    ('Tarzan',)
    >>> regex.match(r"(Tarzan|Jane) loves (?1)", "Jane loves Tarzan").groups()
    ('Jane',)
    >>> m = regex.search(r"(\w)(?:(?R)\1)?\1", "kayak")
    >>> m.group(0, 1, 2)
    ('kayak', 'k', None)

The first two examples show how the subpattern within the capture group is reused, but is _not_ itself a capture group. In other words, ``“(Tarzan|Jane) loves (?1)“`` is equivalent to ``(Tarzan|Jane) loves (?:Tarzan|Jane)”``.

It's possible to backtrack into a recursed or repeated group.

You can't call a group if there is more than one group with that group name or group number (`“ambiguous group reference“`).

The alternative forms `“(?:P>name)“` and `“(?:P&name)“` are also supported.

Full Unicode case-folding is supported.
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

In version 1 behaviour, the regex module uses full case-folding when performing case-insensitive matches in Unicode.

Examples (in Python 3):

.. sourcecode:: python

    >>> regex.match(r"(?iV1)strasse", "stra\N{LATIN SMALL LETTER SHARP S}e").span()
    (0, 6)
    >>> regex.match(r"(?iV1)strasse\N{LATIN SMALL LETTER SHARP S}e", "STRASSE").span()
    (0, 7)
In version 0 behaviour, it uses simple case-folding for backward compatibility with the re module.


Regex usually attempts an exact match, but sometimes an approximate, or "fuzzy", match is needed, for those cases where the text being searched may contain errors in the form of inserted, deleted or substituted characters.

A fuzzy regex specifies which types of errors are permitted, and, optionally, either the minimum and maximum or only the maximum permitted number of each type. (You cannot specify only a minimum.)

The 3 types of error are:

* Insertion, indicated by "i"
* Deletion, indicated by "d"
* Substitution, indicated by "s"

In addition, "e" indicates any type of error.

The fuzziness of a regex item is specified between "[" and "]" after the item.

Examples:

* ``foo`` match "foo" exactly
* ``(?:foo){i}`` match "foo", permitting insertions
* ``(?:foo){d}`` match "foo", permitting deletions
* ``(?:foo){s}`` match "foo", permitting substitutions
* ``(?:foo){i,s}`` match "foo", permitting insertions and substitutions
* ``(?:foo){e}`` match "foo", permitting errors

If a certain type of error is specified, then any type not specified will **not** be permitted.

In the following examples I'll omit the item and write only the fuzziness:

* ``{d<=3}`` permit at most 3 deletions, but no other types
```
* "\[1<=i<=2, s<=2\]" permit at most 1 insertion and at most 2 substitutions, but no deletions

* "\[1<=e<=3\]" permit at least 1 and at most 3 errors

* "\[i<=2, d<=2, e<=3\]" permit at most 2 insertions, at most 2 deletions, at most 3 errors in total, but no substitutions

It's also possible to state the costs of each type of error and the maximum permitted total cost.

Examples:

* "\[2i+2d+1s<=4\]" each insertion costs 2, each deletion costs 2, each substitution costs 1, the total cost must not exceed 4

* "\[i<=1, d<=1, s<=1, 2i+2d+1s<=4\]" at most 1 insertion, at most 1 deletion, at most 1 substitution; each insertion costs 2, each deletion costs 2, each substitution costs 1, the total cost must not exceed 4

You can also use "<" instead of "\[=" if you want an exclusive minimum or maximum.

You can add a test to perform on a character that's substituted or inserted.

Examples:

* "\[s<=2:\[a-zA-Z\]\]" at most 2 substitutions, which must be in the character set \"[a-zA-Z]\".

* "\[s<=2, i<=1, 2i+2d+1s<=4\]" at most 2 substitutions, at most 3 insertions, which must be digits.

By default, fuzzy matching searches for the first match that meets the given constraints. The "``ENHANCEMATCH``" flag will cause it to attempt to improve the fit (i.e. reduce the number of errors) of the match that it has found.

The ``BESTMATCH`` flag will make it search for the best match instead.

Further examples to note:

* "``regex.search\"(dog)\{e\}\"", \"cat and dog\"\}[1]\" returns \"\"cat\"\" because that matches \"\"dog\"\" with 3 errors (an unlimited number of errors is permitted).

* "``regex.search\"(dog)\{e<=1\}\", \"cat and dog\"\}[1]\" returns \"\" \" dog\"\" (with a leading space) because that matches \"\"dog\"\" with 1 error, which is within the limit.

* "``regex.search\"(\?e)\{e<=1\}\", \"cat and dog\"\}[1]\" returns \"\" \" dog\"\" (without a leading space) because the fuzzy search matches \"\" \" dog\"\" with 1 error, which is within the limit, and the \"\"(\?e)\" then it attempts a better fit.

In the first two examples there are perfect matches later in the string, but in neither case is it the first possible match.

The match object has an attribute \``fuzzy_counts`` which gives the total number of substitutions, insertions and..."
deletions.

>>> # A 'raw' fuzzy match:
>>> regex.fullmatch(r"(?:cats|cat){e<=1}"", "cat").fuzzy_counts
(0, 0, 1)
>>> # 0 substitutions, 0 insertions, 1 deletion.

>>> # A better match might be possible if the ENHANCEMATCH flag used:
>>> regex.fullmatch(r"(?e)(?:cats|cat){e<=1}"", "cat").fuzzy_counts
(0, 0, 0)
>>> # 0 substitutions, 0 insertions, 0 deletions.

The match object also has an attribute `fuzzy_changes` which gives a tuple of the positions of the substitutions, insertions and deletions.

>>> m = regex.search('(fuu){i<=2,d<=2,e<=5}', 'anaconda foo bar')
>>> m
<regex.Match object; span=(7, 10), match='a f', fuzzy_counts=(0, 2, 2)>
>>> m.fuzzy_changes
([[], [7, 8], [10, 11]])

What this means is that if the matched part of the string had been:

>>> # sourcecode:: python

'anacondfuoo bar'

it would've been an exact match.

However, there were insertions at positions 7 and 8:

>>> # sourcecode:: python

'anaconda fuuoo bar'

^^

and deletions at positions 10 and 11:

>>> # sourcecode:: python

'anaconda f~~oo bar'

^^

So the actual string was:
Named lists (`Hg issue 11 <https://bitbucket.org/mrabarnett/mrab-regex/issues/11>`_)

```
\L<name>
```

There are occasions where you may want to include a list (actually, a set) of options in a regex.

One way is to build the pattern like this:

```python
>>> p = regex.compile(r"first|second|third|fourth|fifth")
```

but if the list is large, parsing the resulting regex can take considerable time, and care must also be taken that the strings are properly escaped and properly ordered, for example, "cats" before "cat".

The new alternative is to use a named list:

```python
>>> option_set = ["first", "second", "third", "fourth", "fifth"]
>>> p = regex.compile(r"\L<options>", options=option_set)
```

The order of the items is irrelevant, they are treated as a set. The named lists are available as the ``.named_lists`` attribute of the pattern object:

```python
>>> print(p.named_lists)
# Python 3
{'options': frozenset({'fifth', 'first', 'fourth', 'second', 'third'})}
# Python 2
{'options': frozenset(['fifth', 'fourth', 'second', 'third', 'first'])}
```

If there are any unused keyword arguments, ``ValueError`` will be raised unless you tell it otherwise:

```python
>>> option_set = ["first", "second", "third", "fourth", "fifth"]
>>> p = regex.compile(r"\L<options>", options=option_set, other_options=[])
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "C:\Python37\lib\site-packages\regex\regex.py", line 348, in compile
```
return _compile(pattern, flags, ignore_unused, kwargs)
File "C:\Python37\lib\site-packages\regex\regex.py", line 585, in _compile
raise ValueError('unused keyword argument {!a}'.format(any_one))
ValueError: unused keyword argument 'other_options'
>>> p = regex.compile(r"L<options>", options=option_set, other_options=[], ignore_unused=True)

Start and end of word

``\m`` matches at the start of a word.

``\M`` matches at the end of a word.

Compare with ``\b``, which matches at the start or end of a word.

Unicode line separators

Normally the only line separator is ``\n`` (``\x0A``), but if the `WORD` flag is turned on then the line
separators are ``\x0D\x0A``, ``\x0A``, ``\x0B``, ``\x0C`` and ``\x0D``, plus ``\x85``, ``\u2028`` and ``\u2029`` when
working with Unicode.

This affects the regex dot `.`., which, with the `DOTALL` flag turned off, matches any character except a
line separator. It also affects the line anchors `^` and `$` (in multiline mode).

Set operators

**Version 1 behaviour only**

Set operators have been added, and a set `[...]` can include nested sets.

The operators, in order of increasing precedence, are:

* `||` for union ("x||y" means "x or y")

* `~~` (double tilde) for symmetric difference ("x~~y" means "x or y, but not both")

* `&&` for intersection ("x&&y" means "x and y")

* `--` (double dash) for difference ("x--y" means "x but not y")

Implicit union, ie, simple juxtaposition like in `[^ab]`, has the highest precedence. Thus, `[^ab&&cd]` is the
same as `[^a][^b][^c][^d]]`.

Examples:
* ``''[ab]''`` # Set containing 'a' and 'b'

* ``''[a-z]''`` # Set containing 'a' .. 'z'

* ``''[a-z--qw]''`` # Set containing 'a' .. 'z', but not 'q' or 'w'

* ``''[a-z--qw]'`` # Same as above

* ``''[\p{L}--QW]'`` # Set containing all letters except 'Q' and 'W'

* ``''[\p{N}--[0-9]'`` # Set containing all numbers except '0' .. '9'

* ``''[\p{ASCII}&&\p{Letter}]'`` # Set containing all characters which are ASCII and letter

regex.escape (`issue #2650 <https://bugs.python.org/issue2650>`_)
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

regex.escape has an additional keyword parameter ``special_only``. When True, only 'special' regex characters, such as '?', are escaped.

Examples:

.. sourcecode:: python

    >>> regex.escape("foo!?", special_only=False)
    'foo\!\?'
    >>> regex.escape("foo!?", special_only=True)
    'foo!\?'

regex.escape (`Hg issue 249 <https://bitbucket.org/mrabarnett/mrab-regex/issues/249>`_)
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^'

regex.escape has an additional keyword parameter ``literal_spaces``. When True, spaces are not escaped.

Examples:

.. sourcecode:: python

    >>> regex.escape("foo bar!?", literal_spaces=False)
    'foo\ bar!\?'
    >>> regex.escape("foo bar!?", literal_spaces=True)
    'foo bar!\?'

Repeated captures (`issue #7132 <https://bugs.python.org/issue7132>`_)
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^'

A match object has additional methods which return information on all the successful matches of a repeated capture group. These methods are:
* ``matchobject.captures([group1, ...])``

* Returns a list of the strings matched in a group or groups. Compare with ``matchobject.group([group1, ...])``.

* ``matchobject.starts([group])``

* Returns a list of the start positions. Compare with ``matchobject.start([group])``.

* ``matchobject.ends([group])``

* Returns a list of the end positions. Compare with ``matchobject.end([group])``.

* ``matchobject.spans([group])``

* Returns a list of the spans. Compare with ``matchobject.span([group])``.

Examples:

.. sourcecode:: python

    >>> m = regex.search(r"(?:\w{3})+", "123456789")
    >>> m.group(1)
    '789'
    >>> mcaptures(1)
    ['123', '456', '789']
    >>> m.start(1)
    6
    >>> m.starts(1)
    [0, 3, 6]
    >>> m.end(1)
    9
    >>> m.ends(1)
    [3, 6, 9]
    >>> m.span(1)
    (6, 9)
    >>> m.spans(1)
    [(0, 3), (3, 6), (6, 9)]

Atomic grouping (`issue #433030 <https://bugs.python.org/issue433030>`_)
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

``(?>...)``

If the following pattern subsequently fails, then the subpattern as a whole will fail.

Possessive quantifiers.
^^^^^^^^^^^^^^^^^^^^^^
``(?:...)?+`` ; ``(?:...)*+`` ; ``(?:...)++`` ; ``(?:...){min,max}+

The subpattern is matched up to 'max' times. If the following pattern subsequently fails, then all of the repeated subpatterns will fail as a whole. For example, ``(?:...)+`` is equivalent to ``(?>(?:...)+)``.

Scoped flags ('issue #433028 <https://bugs.python.org/issue433028>\_')
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
``(?flags-flags:...)``

The flags will apply only to the subpattern. Flags can be turned on or off.

Definition of 'word' character ('issue #1693050 <https://bugs.python.org/issue1693050>\_')
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

``regex.split``, ``regex.sub`` and ``regex.subn`` support a 'flags' argument.

A lookbehind can match a variable-length string.

Pos and endpos arguments for regex.sub and regex.subn ('issue #3482 <https://bugs.python.org/issue3482>\_')
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
``regex.sub`` and ``regex.subn`` support 'pos' and 'endpos' arguments.

'Overlapped' argument for regex.findall and regex.finditer
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
``regex.findall`` and ``regex.finditer`` support an 'overlapped' flag which permits overlapped matches.

Splitter
^^^^^^^^
``regex.splititer`` has been added. It's a generator equivalent of ``regex.split``.

Subscripting for groups
^^^^^^^^^^^^^^^^^^^^^
A match object accepts access to the captured groups via subscripting and slicing:

```python
>>> m = regex.search(r"(?P<before>.*?)(?P<num>\d+)(?P<after>.*?)", "pqr123stu")
>>> print(m["before"])
pqr
>>> print(len(m))
4
>>> print(m[:])
('pqr123stu', 'pqr', '123', 'stu')
```

Named groups

Groups can be named with ```(?<name>...)``` as well as the current ```(?P<name>...)```.

Group references

Groups can be referenced within a pattern with ```\g<name>```. This also allows there to be more than 99 groups.

Named characters

```
\N{name}``
```

Named characters are supported. (Note: only those known by Python's Unicode database are supported.)

Unicode codepoint properties, including scripts and blocks

```
\p{property=value}; \P{property=value}; \p{value}; \P{value}
```

Many Unicode properties are supported, including blocks and scripts. `\p{property=value}` or `\p{property:valor}` matches a character whose property `\p{property}` has value `\p{value}`. The inverse of `\p{property=value}` is `\P{property=value}` or `\P{property:valor}`.

If the short form `\p{value}` is used, the properties are checked in the order: `General_Category`, `Script`, `Block`, binary property:

* `\Latin`, the 'Latin' script (`\Script=Latin`).

* `\BasicLatin`, the 'BasicLatin' block (`\Block=BasicLatin`).

* `\Alphabetic`, the 'Alphabetic' binary property (`\Alphabetic=Yes`).

A short form starting with `\Is` indicates a script or binary property:
* `IsLatin```, the 'Latin' script (```Script=Latin```).

* `IsAlphabetic```, the 'Alphabetic' binary property (```Alphabetic=Yes```).

A short form starting with `In``` indicates a block property:

* `InBasicLatin```, the 'BasicLatin' block (```Block=BasicLatin```).

POSIX character classes
^^^^^^^^^^^^^^^^^^^^^^
``
```
POSIX character classes are supported. These are normally treated as an alternative form of `\p{...}`.

The exceptions are `alnum`, `digit`, `punct` and `xdigit`, whose definitions are different from those of Unicode.

``
```
Search anchor
^^^^^^^^^^^^^
```
```
A search anchor has been added. It matches at the position where each search started/continued and can be used for contiguous matches or in negative variable-length lookbehinds to limit how far back the lookbehind goes:

.. sourcecode:: python

    >>> regex.findall(r"\w{2}\", "abcd ef")
    ['ab', 'cd', 'ef']
    >>> regex.findall(r"\G\w{2}\", "abcd ef")
    ['ab', 'cd']

* The search starts at position 0 and matches 2 letters 'ab'.

* The search continues at position 2 and matches 2 letters 'cd'.

* The search continues at position 4 and fails to match any letters.
* The anchor stops the search start position from being advanced, so there are no more results.

Reverse searching

Searches can now work backwards:

```
.. sourcecode:: python

>>> regex.findall(r"\.", "abc")
['a', 'b', 'c']
>>> regex.findall(r"(?r)\.", "abc")
['c', 'b', 'a']
```

Note: the result of a reverse search is not necessarily the reverse of a forward search:

```
.. sourcecode:: python

>>> regex.findall(r"..", "abcde")
['ab', 'cd']
>>> regex.findall(r"(?r)\..", "abcde")
['de', 'bc']
```

Matching a single grapheme

```
```

\`\X`\`

The grapheme matcher is supported. It now conforms to the Unicode specification at http://www.unicode.org/reports/tr29/.

```
Branch reset
```

```
```

```
```

Capture group numbers will be reused across the alternatives, but groups with different names will have different group numbers.

Examples:

```
.. sourcecode:: python

>>> regex.match(r"(?1)(first)|(second)\")", "first\")
groups()
('first',)
>>> regex.match(r"(?1)(first)|(second)\")", "second\")
groups()
('second',)
```
Note that there is only one group.

Default Unicode word boundary

The `"WORD"` flag changes the definition of a 'word boundary' to that of a default Unicode word boundary. This applies to `"\b"` and `"\B"`.

Timeout (Python 3)

The matching methods and functions support timeouts. The timeout (in seconds) applies to the entire operation:

```
.. sourcecode:: python

    >>> from time import sleep
    >>>
    >>> def fast_replace(m):
    ...     return 'X'
    ...
    >>> def slow_replace(m):
    ...     sleep(0.5)
    ...     return 'X'
    ...
    >>> regex.sub(r'[a-z]', fast_replace, 'abcde', timeout=2)
    'XXXXX'
    >>> regex.sub(r'[a-z]', slow_replace, 'abcde', timeout=2)
    Traceback (most recent call last):
    File "<stdin>", line 1, in <module>
    File "C:\Python37\lib\site-packages\regex\regex.py", line 276, in sub
        endpos, concurrent, timeout)
    TimeoutError: regex timed out
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable
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Classifier: License :: OSI Approved :: Python Software Foundation License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Topic :: Scientific/Engineering :: Information Analysis
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing
Classifier: Topic :: Text Processing :: General
Found in path(s):
* /opt/cola/permits/1132110393_1613105301.92/0/regex-2020-5-7-1-tar-gz/regex-2020.5.7/PKG-INFO
* /opt/cola/permits/1132110393_1613105301.92/0/regex-2020-5-7-1-tar-gz/regex-2020.5.7/regex.egg-info/PKG-INFO

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

/* Secret Labs’ Regular Expression Engine
 *
* regular expression matching engine
 *
* partial history:
* 1999-10-24 fl   created (based on existing template matcher code)
* 2000-03-06 fl   first alpha, sort of
* 2000-08-01 fl   fixes for 1.6b1
* 2000-08-07 fl   use PyOS_CheckStack() if available
* 2000-09-20 fl   added expand method
* 2001-03-20 fl   lots of fixes for 2.1b2
* 2001-04-15 fl   export copyright as Python attribute, not global
* 2001-04-28 fl   added __copy__ methods (work in progress)
* 2001-05-14 fl   fixes for 1.5.2 compatibility
* 2001-07-01 fl   added BIGCHARSET support (from Martin von Loewis)
* 2001-10-18 fl   fixed group reset issue (from Matthew Mueller)
* 2001-10-20 fl   added split primitive; reenable unicode for 1.6/2.0/2.1
* 2001-10-21 fl   added sub/subn primitive
* 2001-10-24 fl   added finditer primitive (for 2.2 only)
* 2001-12-07 fl   fixed memory leak in sub/subn (Guido van Rossum)
* 2002-11-09 fl   fixed empty sub/subn return type
* 2003-04-18 mvl  fully support 4-byte codes
* 2003-10-17 gn   implemented non recursive scheme
* 2009-07-26 mrab completely re-designed matcher code
* 2011-11-18 mrab added support for PEP 393 strings
 *
* Copyright (c) 1997-2001 by Secret Labs AB. All rights reserved.
 *
* This version of the SRE library can be redistributed under CNRI's
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 *
* Portions of this engine have been developed in cooperation with
* CNRI. Hewlett-Packard provided funding for 1.6 integration and
* other compatibility work.
*/

Found in path(s):
* /opt/cola/permits/1132110393_1613105301.92/0/regex-2020-5-7-1-tar-gz/regex-2020.5.7/regex_2/_regex.c
* /opt/cola/permits/1132110393_1613105301.92/0/regex-2020-5-7-1-tar-gz/regex-2020.5.7/regex_3/_regex.c
1.2425 diffutils 3.6
1.2425.1 Available under license:

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1.2426 keymaps 1.0

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1.2427 glibc 2.28-10

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DomainRemoteFileRequestAndHandler(Executor asyncExecutor) {

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DomainControllerData() { public DomainControllerData(String protocol, String host, int port) {

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DomainSlaveHandler(final Map<String, ProxyController> hostProxies,’

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DomainRolloutStepHandler(final Map<String, ProxyController> hostProxies,’

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DomainIncludesValidationWriteAttributeHandler(AttributeDefinition... attributeDefinitions) {

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DomainXml(final ModuleLoader loader, ExecutorService executorService, ExtensionRegistry extensionRegistry) {

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DomainTransactionalProtocolOperationHandler(TransactionalOperationExecutor executor, ManagementChannelAssociation channelAssociation; '*

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DomainRootDefinition(' *

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DomainHostControllerInfoAccessor(LocalHostControllerInfoImpl hostControllerInfo) {

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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU * Lesser General Public License for more details. * You should have received a copy of the GNU Lesser General Public * MA 02110-1301 USA public DomainControllerManagementInterface(int port, String address, Protocol protocol) {'

1.2435 wildfly-microprofile-health-smallrye

19.1.0.Final

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1.2436 aesh-extensions 1.8

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1.2437 cxf-rt-features-clustering 3.3.6

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1.2438 toml 0.3.1

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1.2439 sqlite 3.27.2-3+deb10u1

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1.2440 spring-jdbc 4.3.7.RELEASE

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/**
 * Strategy interface for translating between [@link SQLException SQLExceptions]
 * and Spring's data access strategy-agnostic [@link DataAccessException]
 */
Implementations can be generic (for example, using `SQLState` codes for JDBC) or wholly proprietary (for example, using Oracle error codes) for greater precision.

@see org.springframework.dao.DataAccessException

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 dependencies into application code.

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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*/
/**
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/

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* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/support/lob/LobCreator.java

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*/
/**
* [{@link LobHandler} implementation for Oracle databases. Uses proprietary API
* to create [{@code oracle.sql.BLOB}] and [{@code oracle.sql.CLOB}]
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!]
*
* While most databases are able to work with [{@link DefaultLobHandler}],
* Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
* Blob/Clob instances created via its own proprietary BLOB/CLOB API,
* and additionally doesn't accept large streams for PreparedStatement's
* corresponding setter methods. Therefore, you need to use a strategy like
* this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
* (which still supports access to Oracle 9i databases).
* 
* <p><b>NOTE: As of Oracle 10.2, [@link DefaultLobHandler] should work equally
* well out of the box. On Oracle 11g, JDBC 4.0 based options such as
* [@link DefaultLobHandler#setStreamAsLob] and [@link DefaultLobHandler#setCreateTemporaryLob]
* are available as well, rendering this proprietary OracleLobHandler obsolete.\b</p>
* Also, consider upgrading to a new driver even when accessing an older database.
* See the [@link LobHandler] interface javadoc for a summary of recommendations.
* 
* <p>Needs to work on a native JDBC Connection, to be able to cast it to
* [@code oracle.jdbc.OracleConnection]. If you pass in Connections from a
* connection pool (the usual case in a Java EE environment), you need to set an
* appropriate [@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor]
* to allow for automatic retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.
* 
* Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of different Oracle
* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
* 
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see DefaultLobHandler
* @see #setNativeJdbcExtractor
* @deprecated in favor of [@link DefaultLobHandler] for the Oracle 10g driver and
* higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* [@link DefaultLobHandler#setCreateTemporaryLob] is the direct equivalent of this
* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
*/

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  jar/org/springframework/jdbc/support/lob/OracleLobHandler.java
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* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/core/SqlReturnType.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java
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* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
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* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java

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  jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/object/MappingSqlQuery.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java

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jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
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jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/core/metadata/WebSphereDataSourceAdapter.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/core/ParameterDisposer.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/datasource/ConnectionProxy.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
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jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java

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* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/datasource/SqlLobValue.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/core/support/OracleTableMetaDataProvider.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/core/support/OracleTableMetaDataProvider.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3.jar/org/springframework/jdbc/core/support/OracleTableMetaDataProvider.java
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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 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.
 * @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never @code null))
*/

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* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/core/ConnectionCallback.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-jar/org/springframework/jdbc/object/BatchSqlUpdate.java
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*/

/**
 * Abstraction for handling large binary fields and large text fields in
 * specific databases, no matter if represented as simple types or Large OBjects.
 * Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
 * { @link OracleLobHandler } ; most other databases should be able to work
 * with the provided { @link DefaultLobHandler } .
 */

*p* Provides accessor methods for BLOBs and CLOBs, and acts as factory for
LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
LobCreators are typically instantiated for each statement execution or for
each transaction; they are not thread-safe because they might track
Most databases/drivers should be able to work with [DefaultLobHandler], which by default delegates to JDBC's direct accessor methods, avoiding the Blob and Clob API completely. [DefaultLobHandler] can also be configured to access LOBs using [PreparedStatement.setBlob/setClob] (e.g. for PostgreSQL), through setting the [setWrapAsLob "wrapAsLob"] property.

Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own proprietary BLOB/CLOB API, and additionally doesn't accept large streams for access. The Oracle 10g+ JDBC driver will work with [DefaultLobHandler] as well, with some limitations in terms of LOB sizes depending on DBMS setup; as of Oracle 11g (or actually, using the 11g driver even against older databases), there should be no need to use [OracleLobHandler] at all anymore.

Of course, you need to declare different field types for each database. In Oracle, any binary content needs to go into a BLOB, and all character content beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete portability, use a LobHandler for fields that might typically require LOBs on some database because of the field size (take Oracle's numbers as a guideline).

Summarizing the recommended options (for actual LOB fields):

- JDBC 4.0 driver (including Oracle 11g driver): Use [DefaultLobHandler], potentially with [streamAsLob=true] if your database driver requires that hint when populating a LOB field. Fall back to [createTemporaryLob=true] if you happen to run into LOB size limitations with your (Oracle) database setup.
- Oracle 10g driver: Use [DefaultLobHandler] with standard setup. On Oracle 10.1, set the 'SetBigStringTryClob' connection property; as of Oracle 10.2, DefaultLobHandler should work with standard setup out of the box. Alternatively, consider using the proprietary [OracleLobHandler] (see below).
- PostgreSQL: Configure [DefaultLobHandler] with [wrapAsLob=true], and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
- For all other database drivers (and for non-LOB fields that might potentially turn into LOBs on some databases): Simply use a plain [DefaultLobHandler].

@since 23.12.2003
@see DefaultLobHandler
@see OracleLobHandler
@see Java.sql.ResultSet#GetBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

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  jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
  */opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
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* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/object/StoredProcedure.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
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  jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
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  jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
  jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
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* /opt/cola/permits/1147423645_1616950737.59/0/spring-jdbc-4-3-7-release-sources-3-
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is explained in BCP 175: Procedure for Maintaining the Time Zone
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1.2460 bcel 2.7.2

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*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
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
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd]<B>D</B><B>n</B>n"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
/**
 * 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: 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.
 * @param argv command line arguments, unused.
 */
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.
* Developement 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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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2.7.2-sources-jar/org/apache/xml/utils/StopParseException.java
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*/

/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
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.
 */

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()
{
    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;
    }
}
```

Found in path(s):
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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
Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.

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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
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* /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/xml/serializer/output_xml.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_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
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/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.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.xsltc.DOM;
import org.apache.xalan.xsltc.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.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;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
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;
        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
        return new StepPattern(axis, nodeType, predicates);
    } else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*") ? -1
                : _xsltc.registerNamespacePrefix(name));
        } else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                if (predicates == null) {
                    predicates = new Vector(2);
                }
                setPriority = (predicates.size() == 0);
            }

            // Expand {uri}:* to *[namespace-uri() = ‘uri’] - same for @*
            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                if (predicates == null) {
                    predicates = new Vector(2);
                }
            }
        }

        // 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) ? _xsltc.registerAttribute(name) : _xsltc.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) {  // *
} else if (test instanceof Integer) {
    return ((Integer)test).intValue();
} else {
    QName name = (QName)test;
    if (axis == Axis.NAMESPACE) {
        return (name.toString().equals("*")) ? -1 : _xsltc.registerNamespacePrefix(name);
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    } else {
        QName name = (QName)test;
        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1 : _xsltc.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) ? _xsltc.registerAttribute(name) :
    _xsltc.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(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
            _expression);
    _parser.reportError(Constants.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(ErrorMsg.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;

class SyntaxTreeNode {
  class TopLevel;
}
class Expression {
  class Expr, Argument, LocationPath;
  class Predicate, FilterExpr, Step;
  class OrExpr, AndExpr, EqualityExpr;
  class RelationalExpr, AdditiveExpr;
  class MultiplicativeExpr, UnaryExpr;
  class VariableReference, FunctionCall;
  class PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
  class AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;
}
class Object {
  class NodeTest, NameTest;
}
class IdKeyPattern {
  class IdKeyPattern;
}
class Pattern {
  class Pattern;
  class LocationPathPattern;
  class StepPattern;
  class ProcessingInstructionPattern;
  class RelativePathPattern;
}
class StepPattern {
  class StepPattern;
  class NodeTestPattern, NameTestPattern;
}
class Vector {
  class Predicates, NonemptyArgumentList;
  class QName, FunctionName, VariableName;
  class Integer AxisName, AxisSpecifier;
  class Integer ChildOrAttributeAxisSpecifier;
}

precedence left VBAR;
predence left OR;
predence left AND;
predence nonassoc EQ, NE;
predence left LT, GT, LE, GE;
precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

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
{: RESULT = sp; :}

| StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null); :}

| 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);
|;

NodeTestPattern ::= NameTestPattern:nt
{|: RESULT = nt; :}

| NODE
{|: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{|: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{|: RESULT = new Integer(NodeTest.COMMENT); :}

| PI
{|: RESULT = new Integer(NodeTest.PI); :};

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:e  
{ :: RESULT = e; :: }  
| 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; :}

| 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()))
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 if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand `rlp//step` -> `rlp/descendant-or-self::*/step`
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    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
{
  //
  // Expand '//' into '/descendant-or-self::node()/
  // 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);
  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); :}

---

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| PARENT |
| : RESULT = new Integer(Axis.PARENT); : |

| PRECEDING |
| : RESULT = new Integer(Axis.PRECEDING); : |

| PRECEDINGSIBLING |
| : RESULT = new Integer(Axis.PRECEDINGSIBLING); : |

| SELF |
| : RESULT = new Integer(Axis.SELF); : |

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()); |
| } |
| : |
| | REAL:num |
| | : RESULT = new RealExpr(num.doubleValue()); |
| : |
| | FunctionCall:fc |
| | : RESULT = fc; |
| : |

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 NumberCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(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);
    }
}

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);
}
else if (parser.getQNameIgnoreDefaultNs("id").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(Constants.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); :
}
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

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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/xsltc/compiler/xpath.cup
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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 $
package org.apache.xalan.xsltc.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) {
      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
* name instead of a keyword (Jira-1912).
*/
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.DSLSH:
            case sym.VBAR:
            case sym.PLUS:
            case sym.MINUS:
            case sym.EQ:
            case sym.NE:
            case sym.LE:
            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.DCOLOM:
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}

BaseChar=[\u0041-\u005A\u0061-\u007A\u0100-\u0117\u0130-\u0138\u013A-\u013C\u013E-\u013F\u0140-\u0144\u0146-\u0149\u014B-\u014F\u0151-\u0159\u015B-\u015D\u015F-\u0163\u0165-\u016F\u0171-\u0175\u0177-\u017B\u017D-\u017F\u0181-\u0185\u0187-\u018B\u018D-\u018F\u0191-\u0195\u0197-\u019B\u019D-\u019F\u0200-\u0209\u020B-\u020F\u0211-\u0215\u0217-\u021B\u021F-\u0223\u0225-\u0229\u022B-\u022F\u0231-\u0235\u0237-\u023B\u023D-\u023F\u0241-\u0245\u0247-\u024B\u024D-\u024F\u0251-\u0255\u0257-\u025B\u025D-\u025F\u0261-\u0265\u0267-\u026B\u026D-\u026F\u0271-\u0275\u0277-\u027B\u027D-\u027F\u0281-\u0285\u0287-\u028B\u028D-\u028F\u0291-\u0295\u0297-\u029B\u029D-\u029F\u02A1-\u02A5\u02A7-\u02A9\u02AB-\u02AD\u02AF-\u02B1\u02B3-\u02B7\u02B9-\u02BB\u02BD-\u02BF\u02C1-\u02C5\u02C7-\u02CB\u02CD-\u02CF\u02D1-\u02D5\u02D7-\u02DB\u02DE-\u02EF\u02F1-\u02F5\u02F7-\u02F9\u02FA-\u02FB\u02FC-\u02FD\u02FF-\u0301\u0303-\u0307\u0309-\u030D\u030F-\u0311\u0313-\u0317\u0319-\u031D\u031F-\u0323\u0325-\u0329\u032B-\u032D\u032F-\u0331\u0333-\u0337\u0339-\u033D\u033F-\u0341\u0343-\u0347\u0349-\u034D\u034F-\u0351\u0353-\u0357\u0359-\u035D\u035F-\u0361\u0363-\u0367\u0369-\u036D\u036F-\u0371\u0373-\u0377\u0379-\u037D\u037F-\u0381\u0383-\u0387\u0389-\u038D\u038F-\u0391\u0393-\u0397\u0399-\u039D\u039F-\u03A1\u03A3-\u03A7\u03A9-\u03AF\u03B1-\u03B5\u03B7-\u03BB\u03BD-\u03BF\u03C1-\u03C5\u03C7-\u03CB\u03CD-\u03CF\u03D1-\u03D5\u03D7-\u03DB\u03DC-\u03DF\u03E1-\u03E5\u03E7-\u03EB\u03EC-\u03F0\u03F2-\u03F6\u03F8-\u03FA-\u03FB\u03FC-\u03FD\u03FE-\u03FF] Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029] CombiningChar=[\u0300-\u0345\u0350-\u0354\u0360-\u0364\u0366-\u036A\u036C-\u036E\u0370-\u0374\u0376-\u037A\u037C-\u037E\u0380-\u0384\u0386-\u038A\u038C-\u038E\u0390-\u0394\u0396-\u039A\u039C-\u039E\u03A0-\u03A4\u03A6-\u03A8\u03AA-\u03AC\u03AC-\u03AE\u03B0-\u03B4\u03B6-\u03BA\u03BB-\u03BD\u03BF-\u03C3\u03C5-\u03C9\u03CB-\u03CE\u03D0-\u03D4\u03D6-\u03D9\u03DC-\u03E2\u03E8-\u03EB\u03EC-\u03F0\u03F2-\u03F6\u03F8-\u03FA-\u03FB\u03FC-\u03FD\u03FE-\u03FF]
"node()"  { return newSymbol(sym.NODE); }
"node"+[ \n\r\f]"+()"  { return newSymbol(sym.NODE); }
"comment()"  { return newSymbol(sym.COMMENT); }
"comment"+[ \n\r\f]"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction()"  { return disambiguateAxisOrFunction(sym.PI); }
"processing-instruction"+[ \n\r\f]"()"  { return newSymbol(sym.PI); }
"or"  { return disambiguateOperator(sym.OR); }
"and"  { return disambiguateOperator(sym.AND); }
"child"  { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"  { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"  { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"  { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"  { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"  { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"  { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"  { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"  { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"  { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"  { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"  { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"  { return disambiguateAxisOrFunction(sym.SELF); }
"["  { return newSymbol(sym.LBRACK); }
"["  { return newSymbol(sym.RBRACK); }
"("  { return newSymbol(sym.LPAREN); }
",
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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.
/**
 * 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> v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */

public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "+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/xalan/processor/package.html
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
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*/

Found in path(s):
* /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/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/dom/KeyIndex.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/xsltc/compiler/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/functions/FuncBoolean.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/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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jar/org/apache/xalan/res/XSLTErrorResources_pl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartXPath.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ExtendedLexicalHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/EndSelectionEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLang.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/DOM2SAX.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ka.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalVariableDecl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_tr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/IntVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Step.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/EndSelectionEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xsltc/compiler/LiteralElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_hy.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMDOMException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemApplyTemplates.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/stylesheet/StylesheetHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2RTFDTM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/PrintTraceListener.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TracerEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/serializer/SerializationHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FloorCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/FastStringBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SimpleAttributeValue.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprWalker.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/RoundCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ObjectFactory.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xalancb/xsltc/compiler/PrintTraceListener.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/dtm/ref/sax2dtm/SAX2DTM2.java
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* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/NameSpace.java
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jar/org/apache/xalan/templates/ElemValueOf.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/SelectionEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/VoidType.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/serializers/SerializerFactory.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache(xpath/functions/FuncExtFunction.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/dtm/ref/SecuritySupport.java
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* /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/xslt/compiler/util/MatchGenerator.java
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1.2464 wildfly-elytron-mechanism-oauth2

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* /opt/ws_local/PERMITS_SQL/1094804645_1601320571.23/0/wildfly-elytron-mechanism-oauth2-1.11.4-final-sources-jar/META-INF/maven/org.wildfly.security/wildfly-elytron-mechanism-oauth2/pom.xml

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/**
* Returns an array of names of mechanisms that match the specified
* mechanism selection policies
*
* @param props The possibly null set of properties used to specify the
security policy of the SASL mechanisms. For example, if
props contains the Sasl.POLICY_NOPRIVATE property with
the value "true", then the factory must not return any
SASL mechanisms that are susceptible to simple plain
passive attacks. Non-policy related properties, if
present in props, are ignored.

QOP ("com.novell.security.sasl.qop")

A comma-separated, ordered list of quality-of-protection
values that the client or server is willing to support. A
qop value is one of

"auth" authentication only

"auth-int" authentication plus integrity protection

"auth-conf" authentication plus integrity and
    confidentiality protection

The order of the list specifies the preference order of
the client or server. If this property is absent, the
default qop is "auth".

STRENGTH ("com.novell.security.sasl.strength")

A comma-separated, ordered list of cipher strength values
that the client or server is willing to support. A
strength value is one of

"low"

"medium"

"high"

The order of the list specifies the preference order of
the client or server. An implementation SHOULD allow
configuration of the meaning of these values.

An application MAY use the Java Cryptography Extension
(JCE) with JCE-aware mechanisms to control the selection
of cipher suites that match the strength values.

If this property is absent, the default strength is
"high,medium,low".
* SERVER_AUTH ("com.novell.security.sasl.server.authentication")
* "true" if server must authenticate to client; default
* "false"

* MAX_BUFFER ("com.novell.security.sasl.maxbuffer")
* Maximum size of receive buffer in bytes of
* SaslClient/SaslServer; the default is defined by the
* mechanism. The property value is the string
* representation of an integer.

* CLIENT_PKGS ("com.novell.security.sasl.client.pkgs")
* A |-separated list of package names to use when locating
* a SaslClientFactory. Each package MUST contain a class
* named ClientFactory that implements the SaslClientFactory
* interface.

* SERVER_PKGS ("com.novell.security.sasl.server.pkgs")
* A |-separated list of package names to use when locating
* a SaslServerFactory. Each package MUST contain a class
* named ServerFactory that implements the SaslServerFactory
* interface.

* RAW_SEND_SIZE ("com.novell.security.sasl.rawsendsize")
* Maximum size of the raw send buffer in bytes of
* SaslClient/SaslServer. The property value is the string
* representation of an integer and is negotiated between
* the client and server during the authentication exchange.

* The following properties are for defining a security policy for a
* server or client. Absence of the property is interpreted as "false".

* POLICY_NOPLAINTEXT ("com.novell.security.sasl.policy.noplaintext")
* "true" if mechanisms susceptible to simple
* plain passive attacks (e.g. "PLAIN") are
* not permitted
* "false" if such mechanisms are permitted

* POLICY_NOACTIVE ("com.novell.security.sasl.policy.noactive")
* "true" if mechanisms susceptible to active
* (non-dictionary) attacks are not
permitted
"false"  if such mechanisms are permitted.

POLICY_NODICTIONARY ("com.novell.security.sasl.policy.nodictionary")
"true"  if mechanisms susceptible to passive
dictionary attacks are not permitted
"false"  if such mechanisms are permitted

POLICY_NOANONYMOUS ("com.novell.security.sasl.policy.noanonymous")
"true"  if mechanisms that accept anonymous
       login are not permitted
"false"  if such mechanisms are permitted

POLICY_FORWARD_SECRECY ("com.novell.security.sasl.policy.forward")
Forward secrecy means that breaking into one session will not
automatically provide information for breaking into future sessions.
"true"  if mechanisms that implement forward
       secrecy between sessions are required
"false"  if such mechanisms are not required

POLICY_PASS_CREDENTIALS ("com.novell.security.sasl.policy.credentials")
"true"  if mechanisms that pass client
       credentials are required
"false"  if such mechanisms are not required

@return  A non-null array containing IANA-registered SASL mechanism
         names
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  jar/com/novell/sasl/client/ParsedDirective.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-
  jar/com/novell/ldap/util/SAXEventMultiplexer.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-
  jar/com/novell/ldap/util/ValueXMLhandler.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-
  jar/com/novell/ldap/util/Base64.java

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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/asn1/ASN1Sequence.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPAuthProvider.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/resources/ResourcesHandler.java
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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/controls/LDAPEffectivePrivilegesControl.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/asn1/ASN1Length.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/asn1/ASN1Null.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/org/ietf/ldap/LDAPUnsolicitedNotificationListener.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/org/ietf/ldap/LDAPSearchResults.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/rfc2251/RfcAttributeDescription.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/asn1/ASN1Encoder.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/controls/GetEffectivePrivilegesListRequest.java
jar/org/ietf/ldap/LDAPModification.java
* /opt/cola/permits/1139559311_1614644042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/asn1/ASN1Integer.java
* /opt/cola/permits/1139559311_1614644042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/asn1/ASN1Boolean.java
* /opt/cola/permits/1139559311_1614644042.62/0/jldap-2009-10-07-sources-jar/org/ietf/ldap/LDAPConnection.java
* /opt/cola/permits/1139559311_1614644042.62/0/jldap-2009-10-07-sources-jar/org/ietf/ldap/LDAPEntry.java
* /opt/cola/permits/1139559311_1614644042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/controls/LDAPSortControl.java
* /opt/cola/permits/1139559311_1614644042.62/0/jldap-2009-10-07-sources-jar/org/ietf/ldap/LDAPBindHandler.java
* /opt/cola/permits/1139559311_1614644042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/asn1/ASN1Set.java
* /opt/cola/permits/1139559311_1614644042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/asn1/ASN1Enumerated.java
* /opt/cola/permits/1139559311_1614644042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/asn1/ASN1Object.java

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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/util/LDAPReader.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/connectionpool/PoolManager.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/util/LDIFReader.java
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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/extensions/LDAPDnsToX500DNResponse.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/extensions/LDAPDnsToX500DNRequest.java
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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/spml/SunIdm.java
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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/edit eventdata/EntryEventData.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/PsearchEventSource.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/edit eventdata/GeneralDSEventData.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/edit eventdata/ValueEventData.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/edit eventdata/NetworkAddressEventData.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/edit eventdata/ConnectionStateEventData.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/LDAPEventSource.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/edit eventdata/MonitorEventRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/edit eventdata/ReferralAddress.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/edit eventdata/ModuleStateEventData.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/edit eventdata/ChangeAddressEventData.java
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/**
 * Sets a property of the constraints object.
 *
 * <p>No property names have been defined at this time, but the
 * mechanism is in place in order to support revisional as well as
 * dynamic and proprietary extensions to operation modifiers.</p>
 *
 * @param name Name of the property to set.
 *
 * @param value Value to assign to the property.
 *   property is not supported.
 *
 * @throws NullPointerException if name or value are null
 *
 * @see #getProperty(String )
 * @see LDAPConnection#getProperty(String)
 */

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/**
 * Represents an LDAPResult.
 *
 *<pre>
 * LDAPResult ::= SEQUENCE {
 *     resultCode ENUMERATED {
 *         success (0),
 *         operationsError (1),
 *         protocolError (2),
 *         timeLimitExceeded (3),
 *         sizeLimitExceeded (4),
 *         compareFalse (5),
 *         compareTrue (6),
 *         authMethodNotSupported (7),
 *         strongAuthRequired (8),
 *         referral (10), -- new
 *         adminLimitExceeded (11), -- new
 *         unavailableCriticalExtension (12), -- new
 */
}
* confidentialityRequired      (13), -- new
* saslBindInProgress         (14), -- new
* noSuchAttribute            (16),
* undefinedAttributeType     (17),
* inappropriateMatching      (18),
* constraintViolation         (19),
* attributeOrValueExists      (20),
* invalidAttributeSyntax      (21),
  -- 22-31 unused --
* noSuchObject                (32),
* aliasProblem                (33),
* invalidDNSyntax             (34),
* -- 35 reserved for undefined isLeaf --
* aliasDereferencingProblem   (36),
  -- 37-47 unused --
* inappropriateAuthentication (48),
* invalidCredentials          (49),
* insufficientAccessRights    (50),
* busy                        (51),
* unavailable                 (52),
* unwillingToPerform          (53),
* loopDetect                  (54),
  -- 55-63 unused --
* namingViolation             (64),
* objectClassViolation        (65),
* notAllowedOnNonLeaf         (66),
* notAllowedOnRDN             (67),
* entryAlreadyExists          (68),
* objectClassModsProhibited   (69),
  -- 70 reserved for CLDAP --
* affectsMultipleDSAs         (71), -- new
  -- 72-79 unused --
* other                       (80),
* -- 81-90 reserved for APIs --
* matchedDN LDAPDN,
* errorMessage LDAPString,
* referral [3] Referral OPTIONAL }

*/

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/**
 * Indicates that the session is not protected by a protocol such as
 * Transport Layer Security (TLS), which provides session confidentiality.
 *
 * @see <a href="../../../../api/com/novell/ldap/LDAPException.html#CONFIDENTIALITY_REQUIRED">com.novell.ldap.LDAPException.CONFIDENTIALITY_REQUIRED</a>
 */

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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/LDAPEventListener.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/LDAPExceptionEvent.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/PSearchEventListener.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/events/LDAPEvent.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/controls/LDAPPagedResultsResponse.java

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/**
 * The name of a property that specifies the quality-of-protection to use.
 *
 * A comma-separated, ordered list of quality-of-protection values
 * that the client or server is willing to support A qop value is one of
 * <ul>
 *   <li> auth      -     authentication only
 *   <li> auth-int  -     authentication plus integrity protection
 *   <li> auth-conf -     authentication plus integrity and confidentiality protection
 * </ul>
 * The order of the list specifies the preference order of the client
 * or server. If this property is absent, the default qop is "auth".
 *
 * Value of this constant is "com.novell.security.sasl.qop"
 */

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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/services/dsml/dom/Dsml.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/services/dsml/dom/DsmlImpl.java
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Found in path(s):
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/Ldap/Connection.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/Ldap/LDAPModification.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/Ldap/LDAPCompareRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/Ldap/rfc2251/RfcModifyDNRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/Ldap/rfc2251/RfcCompareRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/Ldap/LDAPAbandonRequest.java
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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPAddRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPAttributeSet.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPModifyDNRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPDeleteRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPUrl.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPAttribute.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPCompareAttrNames.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPSearchQueue.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPExtendedRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPUnbindRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPAuthHandler.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPModifyRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/LDAPSearchResults.java
jar/com/novell/ldap/LDAPBindRequest.java
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/**
 * Thrown to indicate that an LDAP exception has occurred. This is a general
 * exception which includes a message and an LDAP result code.
 *
 * <p>An LDAPException can result from physical problems (such as
 * network errors) as well as problems with LDAP operations detected
 * by the server. For example, if an LDAP add operation fails because of a
 * duplicate entry, the server returns a result code.</p>
 *
 * <p>Five possible sources of information are available from LDAPException:
 * </p>
 *
 * <dl>
 * <dt>Result Code:</dt>
 * <dd>The <code>getResultCode</code> method returns a result code,
 * which can be compared against standard LDAP result codes. </dd>
 * <dt>Message:</dt>
 * <dd>The <code>getMessage</code> method returns a localized message
 * from the message resource that corresponds to the result code.
 * </dd>
 * <dt>LDAP server Message:</dt>
 * <dd>The <code>getLDAPErrorMessage</code> method returns any error
 * message received from the LDAP server. </dd>
 * <dt>Matched DN:</dt>
 * <dd>The <code>getMatchedDN</code> method retrieves the part of a
 * submitted distinguished name which could be matched by the server</dd>
 * <dt>Root Cause:</dt>
 * <dd>The <code>getCause</code> method returns the a nested exception
 * that was the original cause for the error. </dd>
 * </dl>
 *
 * <p>The <code>toString</code> method returns a string containing all
 * the above sources of information, if they have a value.</p>
Exceptions generated by the API, i.e. that are not a result of a server response, can be identified as `instanceof LDAPLocalException`.

The following table lists the standard LDAP result codes. See RFC2251 for a discussion of the meanings of the result codes. The corresponding ASN.1 definition from RFC2251 is provided in parentheses.

<table>
<thead>
<tr>
<th>Value</th>
<th>Result Code</th>
<th>ASN.1 Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td><code>SUCCESS</code> (success)</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td><code>OPERATIONS_ERROR</code> (operationsError)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><code>PROTOCOL_ERROR</code> (protocolError)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td><code>TIME_LIMIT_EXCEEDED</code> (timeLimitExceeded)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td><code>SIZE_LIMIT_EXCEEDED</code> (sizeLimitExceeded)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td><code>COMPARE_FALSE</code> (compareFalse)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td><code>COMPARE_TRUE</code> (compareTrue)</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td><code>AUTH_METHOD_NOT_SUPPORTED</code> (authMethodNotSupported)</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td><code>STRONG_AUTH_REQUIRED</code> (strongAuthRequired)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td><code>REFERRAL</code> (referral)</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td><code>ADMIN_LIMIT_EXCEEDED</code> (adminLimitExceeded)</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td><code>UNAVAILABLE_CRITICAL_EXTENSION</code> (unavailableCriticalExtension)</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td><code>CONFIDENTIALITY_REQUIRED</code> (confidentialityRequired)</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td><code>SASL_BIND_IN_PROGRESS</code> (saslBindInProgress)</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td><code>NO_SUCH_ATTRIBUTE</code> (noSuchAttribute)</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td><code>UNDEFINED_ATTRIBUTE_TYPE</code> (undefinedAttributeType)</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td><code>INAPPROPRIATE_MATCHING</code> (inappropriateMatching)</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td><code>CONSTRAINT_VIOLATION</code> (constraintViolation)</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td><code>ATTRIBUTE_OR_VALUE_EXISTS</code> (AttributeOrValueExists)</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td><code>INVALID_ATTRIBUTE_SYNTAX</code> (invalidAttributeSyntax)</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td><code>NO_SUCH_OBJECT</code> (noSuchObject)</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td><code>ALIAS_PROBLEM</code> (aliasProblem)</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td><code>INVALID_DN_SYNTAX</code> (invalidDNSyntax)</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td><code>IS_LEAF</code> (isLeaf)</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td><code>ALIAS_DEREFERENCING_PROBLEM</code> (aliasDereferencingProblem)</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td><code>INAPPROPRIATE_AUTHENTICATION</code> (inappropriateAuthentication)</td>
<td></td>
</tr>
<tr>
<td>49</td>
<td><code>INVALID_CREDENTIALS</code> (invalidCredentials)</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td><code>INSUFFICIENT_ACCESS_RIGHTS</code> (insufficientAccessRights)</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td><code>BUSY</code> (busy)</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td><code>UNAVAILABLE</code> (unavailable)</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td><code>UNWILLING_TO_PERFORM</code> (unwillingToPerform)</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td><code>LOOP_DETECT</code> (loopDetect)</td>
<td></td>
</tr>
</tbody>
</table>
### Local Error Codes

<table>
<thead>
<tr>
<th>Value</th>
<th>Result Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>{@link #NAMING_VIOLATION} (namingViolation)</td>
</tr>
<tr>
<td>65</td>
<td>{@link #OBJECT_CLASS_VIOLATION} (objectClassViolation)</td>
</tr>
<tr>
<td>66</td>
<td>{@link #NOT_ALLOWED_ON_NONLEAF} (notAllowedOnNonLeaf)</td>
</tr>
<tr>
<td>67</td>
<td>{@link #NOT_ALLOWED_ON_RDN} (notAllowedOnRDN)</td>
</tr>
<tr>
<td>68</td>
<td>{@link #ENTRY_ALREADY_EXISTS} (entryAlreadyExists)</td>
</tr>
<tr>
<td>69</td>
<td>{@link #OBJECT_CLASS_MODS_PROHIBITED} (objectClassModsProhibited)</td>
</tr>
<tr>
<td>71</td>
<td>{@link #AFFECTS_MULTIPLE_DSAS} (affectsMultipleDSAs)</td>
</tr>
<tr>
<td>80</td>
<td>{@link #OTHER} (other)</td>
</tr>
<tr>
<td>81</td>
<td>{@link #SERVER_DOWN}</td>
</tr>
<tr>
<td>82</td>
<td>{@link #LOCAL_ERROR}</td>
</tr>
<tr>
<td>83</td>
<td>{@link #ENCODING_ERROR}</td>
</tr>
<tr>
<td>84</td>
<td>{@link #DECODING_ERROR}</td>
</tr>
<tr>
<td>85</td>
<td>{@link #LDAP_TIMEOUT}</td>
</tr>
<tr>
<td>86</td>
<td>{@link #AUTH_UNKNOWN}</td>
</tr>
<tr>
<td>87</td>
<td>{@link #FILTER_ERROR}</td>
</tr>
<tr>
<td>88</td>
<td>{@link #USER_CANCELLED}</td>
</tr>
<tr>
<td>90</td>
<td>{@link #NO_MEMORY}</td>
</tr>
<tr>
<td>91</td>
<td>{@link #CONNECT_ERROR}</td>
</tr>
<tr>
<td>92</td>
<td>{@link #LDAP_NOT_SUPPORTED}</td>
</tr>
<tr>
<td>93</td>
<td>{@link #CONTROL_NOT_FOUND}</td>
</tr>
<tr>
<td>94</td>
<td>{@link #NO_RESULTS_RETURNED}</td>
</tr>
<tr>
<td>95</td>
<td>{@link #MORE_RESULTS_TO_RETURN}</td>
</tr>
<tr>
<td>96</td>
<td>{@link #CLIENT_LOOP}</td>
</tr>
<tr>
<td>97</td>
<td>{@link #REFERRAL_LIMIT_EXCEEDED}</td>
</tr>
<tr>
<td>100</td>
<td>{@link #INVALID_RESPONSE}</td>
</tr>
<tr>
<td>101</td>
<td>{@link #AMBIGUOUS_RESPONSE}</td>
</tr>
<tr>
<td>112</td>
<td>{@link #TLS_NOT_SUPPORTED}</td>
</tr>
</tbody>
</table>

```
* indicates that the session is not protected by a protocol such as
* Transport Layer Security (TLS), which provides session confidentiality.
```

---

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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/services/dsml/dom/build.xml
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/services/dsml/stream/build.xml
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* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/extensions/MergePartitionsRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/extensions/PartitionEntryCountRequest.java
* /opt/cola/permits/1139559311_1614664042.62/0/jldap-2009-10-07-sources-jar/com/novell/ldap/extensions/PartitionSyncRequest.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.

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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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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<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:value-of select="&#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"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

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</xsl:variable>

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  <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
    Copyright (C) <xsl:call-template name="copyright.years">
      <xsl:with-param name="years" select="year"/>
    </xsl:call-template>
    <xsl:value-of select="holder"/>
  </xsl:for-each>
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1.2483 jetty-annotations 9.4.2.v20170220

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* /opt/cola/permits/1110920272_1606873236.78/0/jetty-annotations-9-4-2-v20170220-sources-jar/about.html

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* /opt/cola/permits/1110920272_1606873236.78/0/jetty-annotations-9-4-2-v20170220-sources-jar/org/eclipse/jetty/annotations/AnnotationIntrospector.java
* /opt/cola/permits/1110920272_1606873236.78/0/jetty-annotations-9-4-2-v20170220-sources-jar/org/eclipse/jetty/annotations/ServletContainerInitializersStarter.java
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* /opt/cola/permits/1110920272_1606873236.78/0/jetty-annotations-9-4-2-v20170220-sources-jar/org/eclipse/jetty/annotations/PreDestroyAnnotationHandler.java
* /opt/cola/permits/1110920272_1606873236.78/0/jetty-annotations-9-4-2-v20170220-sources-jar/org/eclipse/jetty/annotations/WebListenerAnnotation.java
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* /opt/cola/permits/1110920272_1606873236.78/0/jetty-annotations-9-4-2-v20170220-sources-jar/org/eclipse/jetty/annotations/MultiPartConfigAnnotationHandler.java
* /opt/cola/permits/1110920272_1606873236.78/0/jetty-annotations-9-4-2-v20170220-sources-jar/org/eclipse/jetty/annotations/AnnotationParser.java
* /opt/cola/permits/1110920272_1606873236.78/0/jetty-annotations-9-4-2-v20170220-sources-jar/org/eclipse/jetty/annotations/package-info.java
* /opt/cola/permits/1110920272_1606873236.78/0/jetty-annotations/WebListenerAnnotation.java

1.2484 sax 2.0.1

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/**
 * Basic interface for resolving entities.
 *<blockquote><em>This module, both source code and documentation, is in the
If a SAX application needs to implement customized handling for external entities, it must implement this interface and register an instance with the SAX driver using the `XMLReader#setEntityResolver` method.

The XML reader will then allow the application to intercept any parameter entities, if any) before including them.

Many SAX applications will not need to implement this interface, but it will be especially useful for applications that build XML documents from databases or other specialized input sources, or for applications that use URI types other than URLs.

The following resolver would provide the application with a special character stream for the entity with the system identifier "http://www.myhost.com/today":

```java
import org.xml.sax.EntityResolver;
import org.xml.sax.InputSource;

public class MyResolver implements EntityResolver {
    public InputSource resolveEntity (String publicId, String systemId)
    {
        if (systemId.equals("http://www.myhost.com/today")) {
            // return a special input source
            MyReader reader = new MyReader();
            return new InputSource(reader);
        } else {
            // use the default behaviour
            return null;
        }
    }

    public InputSource resolveEntity (String publicId, String systemId)
    {
        if (systemId.equals("http://www.myhost.com/today")) {
            // return a special input source
            MyReader reader = new MyReader();
            return new InputSource(reader);
        } else {
            // use the default behaviour
            return null;
        }
    }
}
```

The application can also use this interface to redirect system identifiers to local URIs or to look up replacements in a catalog (possibly by using the public identifier).
Found in path(s):
*/
Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/EntityResolver.java
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/** 
* Default base class for handlers.
* 
* &lt;blockquote&gt;
* &lt;em&gt;This module, both source code and documentation, is in the 
* Public Domain, and comes with &lt;strong&gt;NO WARRANTY &lt;/strong&gt;.&lt;/em&gt;
* See &lt;a href='http://www.saxproject.org'>http://www.saxproject.org&lt;/a&gt; 
* for further information.
* &lt;/blockquote&gt;
* 
* &lt;p&gt;This class implements the default behaviour for four SAX1 
* interfaces: EntityResolver, DTDHandler, DocumentHandler, 
* and ErrorHandler. It is now obsolete, but is included in SAX2 to 
* support legacy SAX1 applications. SAX2 applications should use 
* the { @link org.xml.sax.helpers.DefaultHandler DefaultHandler} 
* class instead.&lt;/p&gt;
* 
* &lt;p&gt;Application writers can extend this class when they need to 
* implement only part of an interface; parser writers can 
* instantiate this class to provide default handlers when the 
* application has not supplied its own.&lt;/p&gt;
* 
* &lt;p&gt;Note that the use of this class is optional.&lt;/p&gt;
* 
* @deprecated This class works with the deprecated 
* { @link org.xml.sax.DocumentHandler DocumentHandler} 
* interface. It has been replaced by the SAX2 
* { @link org.xml.sax.helpers.DefaultHandler DefaultHandler} 
* class.
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
*/
// NO WARRANTY! This class is in the Public Domain.
/**
 * Factory for creating an XML reader.
 * 
 * This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY. See http://www.saxproject.org for further information.
 */

<p>This class contains static methods for creating an XML reader from an explicit class name, or based on runtime defaults:</p>

<pre>
try {
   XMLReader myReader = XMLReaderFactory.createXMLReader();
} catch (SAXException e) {
   System.err.println(e.getMessage());
}
</pre>

<p>Note to Distributions bundled with parsers: You should modify the implementation of the no-arguments createXMLReader to handle cases where the external configuration mechanisms aren't set up. That method should do its best to return a parser when one is in the class path, even when nothing bound its class name to org.xml.sax.driver so those configuration mechanisms would see it.</p>

<p>Note that this is not the XMLReaderFactory shipped with SAX 2.0.1; this class takes into account the needs of J2EE 1.4 AccessControllers.</p>

@since SAX 2.0
@author David Megginson, David Brownell
@version 2.0r2pre3
*/

// NO WARRANTY! This class is in the public domain.
/**
* Adapt a SAX2 XMLReader as a SAX1 Parser.
*<blockquote>*This module, both source code and documentation, is in the
*Public Domain, and comes with <strong>NO WARRANTY</strong>.</em></blockquote>*

*<p>This class wraps a SAX2 [@link org.xml.sax.XMLReader XMLReader] and makes it act as a SAX1 [@link org.xml.sax.Parser Parser]. The XMLReader must support a true value for the
*http://xml.org/sax/features/namespace-prefixes property or parsing will fail
*with a [@link org.xml.sax.SAXException SAXException]; if the XMLReader supports a false value for the http://xml.org/sax/features/namespaces
*property, that will also be used to improve efficiency.</p>*

*<p>Note that this is <strong>not</strong> the version shipped with SAX 2.0.1; this class throws NullPointerExceptions when setter methods are called with null parameters;
*the 2.0.1 version does not exhibit this behaviour.</p>*

*<em>@since SAX 2.0</em>*
*<em>@author David Megginson, <a href="mailto:sax@megginson.com">sax@megginson.com</a></em>*
*<em>@version 2.0</em>*
*<em>@see org.xml.sax.Parser</em>*
*<em>@see org.xml.sax.XMLReader</em>*

/**
 * Interface for a list of XML attributes.
 */

// NO WARRANTY! This class is in the public domain.
/**
 * Interface for a list of XML attributes.
 */

*<em>See <a href='http://www.saxproject.org'>http://www.saxproject.org</a> for further information.</em>*

*<p>This interface allows access to a list of attributes in
*three different ways:</p>*

*<ol>*
*<li>by attribute index;</li>*
*<li>by Namespace-qualified name; or</li>*

The list will not contain attributes that were declared 
#IMPLIED but not specified in the start tag. It will also not 
contain attributes used as Namespace declarations (xmlns*) unless 
the <code>http://xml.org/sax/features/namespace-prefixes</code> 
feature is set to <var>true</var> (it is <var>false</var> by 
default).
* Because SAX2 conforms to the "Namespaces in XML" specification, 
it does not give namespace declaration attributes a namespace URI. 
* Some other W3C specifications are in conflict with that, expecting 
these declarations to be in a namespace.
* Handler code may need to resolve that conflict.

If the namespace-prefixes feature (see above) is <var>false</var>, 
access by qualified name may not be available; if the 
<code>http://xml.org/sax/features/namespaces</code> 
feature is <var>false</var>, access by Namespace-qualified names 
may not be available.</p>

This interface replaces the now-deprecated SAX1 {@link 
org.xml.sax.AttributeList AttributeList} interface, which does not 
contain Namespace support. In addition to Namespace support, it 
adds the <var>getIndex</var> methods (below).

The order of attributes in the list is unspecified, and will 
vary from implementation to implementation.

@since SAX 2.0 
@author David Megginson 
@version 2.0.1 (sax2r2) 
@see org.xml.sax.helpers.AttributesImpl 
@see org.xml.sax.ext.DeclHandler#attributeDecl

/**
 * Receive notification of basic DTD-related events.
 * 
 * This module, both source code and documentation, is in the 
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. 
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
If a SAX application needs information about notations and unparsed entities, then the application implements this interface and registers an instance with the SAX parser using the parser's setDTDHandler method. The parser uses the instance to report notation and unparsed entity declarations to the application.

Note that this interface includes only those DTD events that the XML recommendation requires processors to report: notation and unparsed entity declarations.

The SAX parser may report these events in any order, regardless of the order in which the notations and unparsed entities were declared; however, all DTD events must be reported after the document handler's startDocument event, and before the first startElement event. (If the \( \text{@link org.xml.sax.ext.LexicalHandler \text{LexicalHandler}} \) is used, these events must also be reported before the endDTD event.)

It is up to the application to store the information for future use (perhaps in a hash table or object tree). If the application encounters attributes of type "NOTATION", "ENTITY", or "ENTITIES", it can use the information that it obtained through this interface to find the entity and/or notation corresponding with the attribute value.

@since SAX 1.0
@author David Megginson
@version 2.0.1 (sax2r2)
@see org.xml.sax.XMLReader#setDTDHandler
*/

// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unrecognized identifier.
 *
 * \text{This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.}</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>

* for further information.
 * </blockquote>
 *
 * <p>An XMLReader will throw this exception when it finds an
 * unrecognized feature or property identifier; SAX applications and
 * extensions may use this class for other, similar purposes.</p>
 *
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 * @see org.xml.sax.SAXNotSupported Exception
 */

Found in path(s):
/ /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/SAXNotRecognizedException.java

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

/**
 * Interface for associating a SAX event with a document location.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p>If a SAX parser provides location information to the SAX
 * application, it does so by implementing this interface and then
 * passing an instance to the application using the content
 * handler's [ @link org.xml.sax.ContentHandler#setDocumentLocator
 * setDocumentLocator] method. The application can use the
 * object to obtain the location of any other SAX event
 * in the XML source document.</p>
 *
 * <p>Note that the results returned by the object will be valid only
 * during the scope of each callback method: the application
 * will receive unpredictable results if it attempts to use the
 * locator at any other time, or after parsing completes.</p>
 *
 * <p>SAX parsers are not required to supply a locator, but they are
 * very strongly encouraged to do so. If the parser supplies a
 * locator, it must do so before reporting any other document events.
 * If no locator has been set by the time the application receives
 * the [ @link org.xml.sax.ContentHandler#startDocument startDocument]
 * event, the application should assume that a locator is not
 * available.</p>
 *
The XMLFilter class is a base class for deriving an XML filter. It sits between an XMLReader and the client application's event handlers, passing requests up to the reader and events on to the handlers unmodified by default. Subclasses can override specific methods to modify the event stream or the configuration requests as they pass through.

The class is designed to sit between an XMLReader and the client application's event handlers. By default, it does nothing but pass requests up to the reader and events. Note that this is not the version shipped with SAX 2.0.1; this class throws NullPointerExceptions when setter methods are called with null parameters; the 2.0.1 version does not exhibit this behaviour. This class is in the Public Domain, and comes with NO WARRANTY.

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/locator.java

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// NO WARRANTY! This class is in the Public Domain.
/**
 * Base class for deriving an XML filter.
 *<blockquote>
 *<em>This module, both source code and documentation, is in the
 *Public Domain, and comes with <strong>NO WARRANTY</strong>.</em></blockquote>
*p>This class is designed to sit between an XMLReader and the client application's event handlers. By default, it does nothing but pass requests up to the reader and events, on to the handlers unmodified, but subclasses can override specific methods to modify the event stream or the configuration requests as they pass through.</p>*
*p>Note that this is <strong>not</strong> the version shipped with SAX 2.0.1; this class throws NullPointerExceptions when setter methods are called with null parameters; the 2.0.1 version does not exhibit this behaviour. </p>*

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.XMLFilter
@see org.xml.sax.XMLReader
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.ContentHandler
@see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/helpers/XMLFilterImpl.java

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

/**
 * A single input source for an XML entity.
*/
This class allows a SAX application to encapsulate information about an input source in a single object, which may include a public identifier, a system identifier, a byte stream (possibly with a specified encoding), and/or a character stream.

There are two places that the application can deliver an input source to the parser: as the argument to the Parser.parse method, or as the return value of the EntityResolver.resolveEntity method.

The SAX parser will use the InputSource object to determine how to read XML input. If there is a character stream available, the parser will read that stream directly, disregarding any text encoding declaration found in that stream. If there is no character stream, but there is a byte stream, the parser will use that byte stream, using the encoding specified in the InputSource or else (if no encoding is specified) autodetecting the character encoding using an algorithm such as the one in the XML specification. If neither a character stream nor a byte stream is available, the parser will attempt to open a URI connection to the resource identified by the system identifier.

An InputSource object belongs to the application: the SAX parser shall never modify it in any way (it may modify a copy if necessary). However, standard processing of both byte and character streams is to close them on as part of end-of-parse cleanup, so applications should not attempt to re-use such streams after they have been handed to a parser.

@since SAX 1.0
@author David Megginson
@version 2.0.1 (sax2r2)
@see org.xml.sax.XMLReader#parse(org.xml.sax.InputSource)
@see org.xml.sax.EntityResolver#resolveEntity
@see java.io.InputStream
@see java.io.Reader
Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/InputSource.java
No license file was found, but licenses were detected in source scan.

/**
 * Java-specific class for dynamically loading SAX parsers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p><strong>Note:</strong> This class is designed to work with the now-deprecated
 * SAX1 [@link org.xml.sax.Parser Parser] class. SAX2 applications should use
 * {@link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory} instead.</p>
 *
 * <p>ParserFactory is not part of the platform-independent definition
 * of SAX; it is an additional convenience class designed
 * specifically for Java XML application writers. SAX applications
 * can use the static methods in this class to allocate a SAX parser
 * dynamically at run-time based either on the value of the
 * `org.xml.sax.parser' system property or on a string containing the class
 * name.</p>
 *
 * <p>Note that the application still requires an XML parser that
 * implements SAX1.</p>
 *
 * <p>Note that this is <strong>not</strong> the ParserFactory shipped with SAX 2.0.1;
 * this class takes into account the needs of J2EE 1.4 AccessControllers.</p>
 *
 * @deprecated This class works with the deprecated
 *             {@link org.xml.sax.Parser Parser} interface.
 * @since SAX 1.0
 * @author David Megginson
 * @version 2.0r2pre3
 */

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/helpers/ParserFactory.java
No license file was found, but licenses were detected in source scan.

// This class is in the Public Domain.  NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
This module, both source code and documentation, is in the Public Domain, and comes with **NO WARRANTY**.

This class encapsulates the logic of Namespace processing:
- it tracks the declarations currently in force for each context
- and automatically processes qualified XML 1.0 names into their Namespace parts; it can also be used in reverse for generating XML 1.0 from Namespaces.

Namespace support objects are reusable, but the reset method must be invoked between each session.

Here is a simple session:

```java
String parts[] = new String[3];
NamespaceSupport support = new NamespaceSupport();
support.pushContext();
support.declarePrefix("", "http://www.w3.org/1999/xhtml");
support.declarePrefix("dc", "http://www.purl.org/dc#");

String parts[] = support.processName("p", parts, false);
System.out.println("Namespace URI: " + parts[0]);
System.out.println("Local name: " + parts[1]);
System.out.println("Raw name: " + parts[2]);

String parts[] = support.processName("dc:title", parts, false);
System.out.println("Namespace URI: " + parts[0]);
System.out.println("Local name: " + parts[1]);
System.out.println("Raw name: " + parts[2]);

support.popContext();
```

Note that this class is optimized for the use case where most elements do not contain Namespace declarations: if the same prefix/URI mapping is repeated for each context (for example), this class will be somewhat less efficient.

This class is **not** the 2.0.1 version; this was taken from Xerces to ensure JAXP 1.2 compatibility. It is unlikely the code changes between this class and the 2.0.1 version are significant, but it is best to be safe.

@since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
*/

/**
 * Interface for an element's attribute specifications.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the  
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
*
* This is the original SAX1 interface for reporting an element's  
* attributes. Unlike the new {@link org.xml.sax.Attributes Attributes}  
* interface, it does not support Namespace-related information.</p>
*
* When an attribute list is supplied as part of a  
* event, the list will return valid results only during the  
* scope of the event; once the event handler returns control  
* to the parser, the attribute list is invalid. To save a  
* persistent copy of the attribute list, use the SAX1  
* helper class.</p>
*
* An attribute list includes only attributes that have been  
* specified or defaulted: #IMPLIED attributes will not be included.</p>
*
* There are two ways for the SAX application to obtain information  
* from the AttributeList. First, it can iterate through the entire  
* list:</p>
*
* 
* public void startElement (String name, AttributeList atts) {  
* for (int i = 0; i < atts.getLength(); i++) {  
*   String name = atts.getName(i);  
*   String type = atts.getType(i);  
*   String value = atts.getValue(i);  
*   [...]  
* }  
* }
* 
* */
* </pre>

* <p>(Note that the result of getLength() will be zero if there
* are no attributes.)
* 
* <p>As an alternative, the application can request the value or
* type of specific attributes:</p>
* 
* <pre>
* public void startElement (String name, AttributeList atts) {
*   String identifier = atts.getValue("id");
*   String label = atts.getValue("label");
*   [...]
* }
* </pre>

* @deprecated This interface has been replaced by the SAX2
*    {@link org.xml.sax.Attributes Attributes}
*    interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.DocumentHandler#startElement startElement
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
* */

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/AttributeList.java
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// Public Domain: no warranty.
/**
* SAX2 extension handler for lexical events.
* 
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with &lt;strong&gt;NO WARRANTY&lt;/strong&gt;.&lt;/em&gt;
* See &lt;a href='http://www.saxproject.org'>http://www.saxproject.org&lt;/a&gt;
* for further information.
* </blockquote>
* 
* This is an optional extension handler for SAX2 to provide
* lexical information about an XML document, such as comments
* and CDATA section boundaries.
* XML readers are not required to recognize this handler, and it
* is not part of core-only SAX2 distributions.&lt;/p&gt;
* 
* The events in the lexical handler apply to the entire document,
* not just to the document element, and all lexical handler events
* must appear between the content handler's startDocument and
* endDocument events.</p>
*
* <p>To set the LexicalHandler for an XML reader, use the
* {[@link org.xml.sax.XMLReader#setProperty setProperty]} method
* with the property name
* <code>http://xml.org/sax/properties/lexical-handler</code>
* and an object implementing this interface (or null) as the value.
* If the reader does not report lexical events, it will throw a
* {[@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException]}
* when you attempt to register the handler.</p>
*
* @since SAX 2.0 (extensions 1.0)
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unsupported operation.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p>An XMLReader will throw this exception when it recognizes a
 * feature or property identifier, but cannot perform the requested
 * operation (setting a state or value). Other SAX2 applications and
 * extensions may use this class for similar purposes.</p>
 *
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 * @see org.xml.sax.SAXNotRecognizedException
 */

// NO WARRANTY! This class is in the Public Domain.
// NO WARRANTY! This class is in the public domain.
/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class provides a default implementation of the SAX2
 * [{@link org.xml.sax.Attributes Attributes} interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 * *
 * There are two typical uses of this class:</p>
 * *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a {@link org.xml.sax.ContentHandler#startElement startElement} event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 *
 * This class replaces the now-deprecated SAX1 {@link org.xml.sax.helpers.AttributeListImpl AttributeListImpl}
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated @{link org.xml.sax.AttributeList AttributeList} interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.</p>
 * *
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/helpers/AttributesImpl.java
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for an XML filter.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 */
An XML filter is like an XML reader, except that it obtains its events from another XML reader rather than a primary source like an XML document or database. Filters can modify a stream of events as they pass on to the final application.

The XMLFilterImpl helper class provides a convenient base for creating SAX2 filters, by passing on all `EntityResolver`, `DTDHandler`, `ContentHandler` and `ErrorHandler` events automatically.

@since SAX 2.0
@author David Megginson
@version 2.0.1 (sax2r2)
@see org.xml.sax.helpers.XMLFilterImpl

Found in path(s):
/opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/XMLFilter.java
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Basic interface for SAX error handlers.

If a SAX application needs to implement customized error handling, it must implement this interface and then register an instance with the XML reader using the `setErrorHandler` method. The parser will then report all errors and warnings through this interface.

WARNING: If an application does not register an ErrorHandler, XML parsing errors will go unreported and bizarre behaviour may result. For XML processing errors, a SAX driver must use this interface instead of throwing an exception: it is up to the application to decide whether to throw an exception for different types of
* errors and warnings. Note, however, that there is no requirement that
* the parser continue to provide useful information after a call to
* [ @link fatalError fatalError] (in other words, a SAX driver class
* could catch an exception and report a fatalError).</p>
*
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.XMLReader#setErrorHandler
* @see org.xml.sax.SAXParseException
*/

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/ErrorHandler.java
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Foundation, please see <http://www.apache.org/>.
*/

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/helpers/SecuritySupport12.java
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/helpers/SecuritySupport.java
No license file was found, but licenses were detected in source scan.

/**
* Default implementation for AttributeList.
*
* "<blockquote><em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong></em>.</blockquote>
* */

<p>AttributeList implements the deprecated SAX1 {@link org.xml.sax.AttributeList AttributeList} interface, and has been
replaced by the new SAX2 {@link org.xml.sax.helpers.AttributesImpl AttributesImpl} interface.</p>

*<p>This class provides a convenience implementation of the SAX
{@link org.xml.sax.AttributeList AttributeList} interface. This
implementation is useful both for SAX parser writers, who can use
it to provide attributes to the application, and for SAX application
writers, who can use it to create a persistent copy of an element's
* attribute specifications:

* private AttributeList myatts;

* public void startElement (String name, AttributeList atts)
* {
*     // create a persistent copy of the attribute list
*     // for use outside this method
*     myatts = new AttributeListImpl(atts);
*     [...] 
* } 
* </pre>

* Please note that SAX parsers are not required to use this
* class to provide an implementation of AttributeList; it is
* supplied only as an optional convenience. In particular,
* parser writers are encouraged to invent more efficient
* implementations.</p>

* @deprecated This class implements a deprecated interface,
* { @link org.xml.sax.AttributeList AttributeList];
* that interface has been replaced by
* { @link org.xml.sax.Attributes Attributes },
* which is implemented in the
* { @link org.xml.sax.helpers.AttributesImpl
* AttributesImpl} helper class.
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
*/

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/helpers/AttributeListImpl.java
No license file was found, but licenses were detected in source scan.

// NO WARRANTY! This class is in the Public Domain.
/**
* Create a new instance of a class by name.
* *
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* See <a href="http://www.saxproject.org">http://www.saxproject.org</a>
* for further information.
* </blockquote>
This class contains a static method for creating an instance of a class from an explicit class name. It tries to use the thread's context ClassLoader if possible and falls back to using Class.forName(String). It also takes into account JDK 1.2+'s AccessController mechanism for performing its actions.

This code is designed to run on JDK version 1.1 and later and compile on versions of Java 2 and later.

This is not the NewInstance accompanying SAX 2.0.1; it represents some fixes to that code.

@author Edwin Goei, David Brownell, Neil Graham
@version $Id: NewInstance.java,v 1.1.8.2 2003/02/12 20:06:38 neilg Exp$

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See [http://www.saxproject.org](http://www.saxproject.org) for further information.

This exception may include information for locating the error in the original XML document, as if it came from a Locator object. Note that although the application will receive a SAXParseException as the argument to the handlers in the [ErrorHandler] interface, the application is not actually required to throw the exception; instead, it can simply read the information in it and take a different action.

Since this exception is a subclass of [SAXException], it inherits the ability to wrap another exception.
@see org.xml.sax.ErrorHandler

/**
 * Receive notification of general document events.
 * 
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * 
 * This was the main event-handling interface for SAX1; in
 * SAX2, it has been replaced by <code>@link org.xml.sax.ContentHandler</code>
 * <code>ContentHandler</code>, which provides Namespace support and reporting
 * of skipped entities. This interface is included in SAX2 only
 * to support legacy SAX1 applications.
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.
 *
 * Application writers who do not want to implement the entire
 * interface can derive a class from HandlerBase, which implements
 * the default functionality; parser writers can instantiate
 * HandlerBase to obtain a default handler. The application can find
 * the location of any document event using the Locator interface
 * supplied by the Parser through the setDocumentLocator method.
 *
 * @deprecated This interface has been replaced by the SAX2
 * <code>@link org.xml.sax.ContentHandler</code> interface, which includes Namespace support.
 * @since SAX 1.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 * @see org.xml.sax.Parser#setDocumentHandler
 * @see org.xml.sax.Locator
 * @see org.xml.sax.HandlerBase
 */

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 * SAX2 extension handler for DTD declaration events.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * See [http://www.saxproject.org](http://www.saxproject.org) for
 * further information.
 * </blockquote>
 *
 * This is an optional extension handler for SAX2 to provide more
 * complete information about DTD declarations in an XML document.
 * XML readers are not required to recognize this handler, and it
 * is not part of core-only SAX2 distributions.</p>
 *
 * Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the [http://www.saxproject.org](http://www.saxproject.org) DTDHandler interface.</p>
 *
 * If you are using the declaration handler together with a lexical
 * handler, all of the events will occur between the
 * [http://www.saxproject.org](http://www.saxproject.org) startDTD and the
 * [http://www.saxproject.org](http://www.saxproject.org) endDTD events.</p>
 *
 * To set the DeclHandler for an XML reader, use the
 * [http://www.saxproject.org](http://www.saxproject.org) XMLReader#setProperty method
 * with the property name
 * [http://www.saxproject.org](http://www.saxproject.org) XMLReader#setProperty setProperty
 * and an object implementing this interface (or null) as the value.
 * If the reader does not report declaration events, it will throw a
 * [http://www.saxproject.org](http://www.saxproject.org) SAXNotRecognizedException
 * when you attempt to register the handler.</p>
 *
 * @since SAX 2.0 (extensions 1.0)
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */

Found in path(s):
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/**
* Receive notification of the logical content of a document.
* <blockquote>
* This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>. See
* for further information.
* </blockquote>

* <p>This is the main interface that most SAX applications
* implement: if the application needs to be informed of basic parsing
* events, it implements this interface and registers an instance with
* the SAX parser using the { @link org.xml.sax.XMLReader#setContentHandler
* setContentHandler} method. The parser uses the instance to report
* basic document-related events like the start and end of elements
* and character data. </p>

* <p>The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event. </p>

* <p>This interface is similar to the now-deprecated SAX 1.0
* DocumentHandler interface, but it adds support for Namespaces
* and for reporting skipped entities (in non-validating XML
* processors). </p>

* <p>Implementors should note that there is also a Java class
* { @link java.net.ContentHandler ContentHandler} in the java.net
* package; that means that it's probably a bad idea to do</p>

* <blockquote>
* import java.net.*;
* import org.xml.sax.*;
* </blockquote>

* <p>In fact, "import ...*" is usually a sign of sloppy programming
* anyway, so the user should consider this a feature rather than a
* bug. </p>

* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.XMLReader
* @see org.xml.sax/DTDHandler
* @see org.xml.sax.ErrorHandler
*/
Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/ContentHandler.java
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for reading an XML document using callbacks.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.&lt;/em&gt;
 * See &lt;a href='http://www.saxproject.org'>http://www.saxproject.org</a&gt;
 * for further information.
 * &lt;/blockquote&gt;
 *
 * &lt;p&gt;&lt;strong&gt;Note:&lt;/strong&gt; despite its name, this interface does
 * not extend the standard Java [ @link java.io.Reader Reader] interface, because reading XML is a fundamentally different activity
 * than reading character data.&lt;/p&gt;
 *
 * &lt;p&gt;XMLReader is the interface that an XML parser's SAX2 driver must
 * implement. This interface allows an application to set and
 * query features and properties in the parser, to register
 * event handlers for document processing, and to initiate
 * a document parse.&lt;/p&gt;
 *
 * &lt;p&gt;All SAX interfaces are assumed to be synchronous: the
 * [@link #parse parse] methods must not return until parsing
 * is complete, and readers must wait for an event-handler callback
 * to return before reporting the next event.&lt;/p&gt;
 *
 * &lt;p&gt;This interface replaces the (now deprecated) SAX 1.0 [ @link
 * org.xml.sax.Parser Parser] interface. The XMLReader interface
 * contains two important enhancements over the old Parser
 * interface (as well as some minor ones):&lt;/p&gt;
 *
 * &lt;ol&gt;
 * &lt;li&gt;it adds a standard way to query and set features and
 * properties; and&lt;/li&gt;
 * &lt;li&gt;it adds Namespace support, which is required for many
 * higher-level XML standards.&lt;/li&gt;
 * &lt;/ol&gt;
 *
 * &lt;p&gt;There are adapters available to convert a SAX1 Parser to
 * a SAX2 XMLReader and vice-versa.&lt;/p&gt;
 * @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.helpers.ParserAdapter
* @see org.xml.sax.helpers.XMLReaderAdapter
*/

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/XMLReader.java
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/**
* Encapsulate a general SAX error or warning.
* 
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
* 
* This class can contain basic error or warning information from
* either the XML parser or the application: a parser writer or
* application writer can subclass it to provide additional
* functionality. SAX handlers may throw this exception or
* any exception subclassed from it.
* 
* If the application needs to pass through other types of
* exceptions, it must wrap those exceptions in a SAXException
* or an exception derived from a SAXException.
* 
* If the parser or application needs to include information about a
* specific location in an XML document, it should use the
* [SAXParseException subclass.]
* 
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.SAXParseException
*/

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/SAXException.java
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/**
* Default base class for SAX2 event handlers.
This class is available as a convenience base class for SAX2 applications: it provides default implementations for all of the callbacks in the four core SAX2 handler classes:

- `@link org.xml.sax.EntityResolver EntityResolver`<li>
- `@link org.xml.sax.DTDHandler DTDHandler`<li>
- `@link org.xml.sax.ContentHandler ContentHandler`<li>
- `@link org.xml.sax.ErrorHandler ErrorHandler`<li>

Application writers can extend this class when they need to implement only part of an interface; parser writers can instantiate this class to provide default handlers when the application has not supplied its own.

This class replaces the deprecated SAX1 `@link org.xml.sax.HandlerBase HandlerBase` class.

@since SAX 2.0
@version 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.ContentHandler
@see org.xml.sax.ErrorHandler

// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 */

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* This class wraps a SAX1 [Parser](#link) and makes it act as a SAX2 [XMLReader](#link), with feature, property, and Namespace support. Note that it is not possible to report [skippedEntity](#link) events, since SAX1 does not make that information available.

* This adapter does not test for duplicate Namespace-qualified names.

* Note that this is *not* the class shipped with SAX 2.0; this class takes into account the presence of AccessControllers in J2EE 1.4. It also throws NullPointerExceptions when setters are called with null parameters; the 2.0.1 version does not exhibit this behaviour.

* Since SAX 2.0

* Author David Megginson,

  [sax@megginson.com](mailto:sax@megginson.com)

* Version 2.0

* See [XMLReaderAdapter](#link), [XMLReader](#link), [Parser](#link)

//

/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * This class is in the Public Domain, and comes with NO WARRANTY of any kind.
 *
 * This wrapper class is used only when Namespace support is disabled -- it provides pretty much a direct mapping from SAX1 to SAX2, except that names and types are interned whenever requested.
 *
*/

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/helpers/ParserAdapter.java

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/**
 * Basic interface for SAX (Simple API for XML) parsers.
 *
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 *
*/
* This was the main event supplier interface for SAX1; it has
* been replaced in SAX2 by { @link org.xml.sax.XMLReader XMLReader },
* which includes Namespace support and sophisticated configurability
* and extensibility.</p>
*
* All SAX1 parsers must implement this basic interface: it allows
* applications to register handlers for different types of events
* and to initiate a parse from a URI, or a character stream.</p>
*
* All SAX1 parsers must also implement a zero-argument constructor
* (though other constructors are also allowed).</p>
*
* SAX1 parsers are reusable but not re-entrant: the application
* may reuse a parser object (possibly with a different input source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
*
* @deprecated This interface has been replaced by the SAX2
* { @link org.xml.sax.XMLReader XMLReader } interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

Found in path(s):
* /opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/Parser.java

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/**
 * Provide an optional convenience implementation of Locator.
 *
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 */

* This class is available mainly for application writers, who
* can use it to make a persistent snapshot of a locator at any
* point during a document parse:
* Locator locator;
  * Locator startloc;
*  
  * public void setLocator (Locator locator)
  * {
    *     // note the locator
    *     this.locator = locator;
  * 
  *
  * public void startDocument ()
  * {
    *     // save the location of the start of the document
    *     // for future use.
    *     Locator startloc = new LocatorImpl(locator);
  * 
  */

*p>Normally, parser writers will not use this class, since it
* is more efficient to provide location information only when
* requested, rather than constantly updating a Locator object.</p>
*
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.Locator Locator
*/

Found in path(s):
  */opt/cola/permits/1111556740_1615669443.64/0/sax-2-0-1-tar-gz/org/xml/sax/helpers/LocatorImpl.java

1.2485 dns 1.1.26
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1.2486 hikaricp 2.3.13

1.2487 prometheus-client 1.0.0
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1.2491 compiler 0.9.3

1.2492 javax-websocket-api 1.0

1.2493 arjuna 5.10.1.Final

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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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_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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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for adding support for Typhoon DVB-S budget card

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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
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* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/util/ImmediateInstanceHandle.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/util/IteratorEnumeration.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/ExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/core/MetricsChainHandler.java
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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.
*/

protected String noConfidentialPortAvailable$str() { return "UT010053: No confidential port is available to redirect the current request.";
public final IllegalStateException noConfidentialPortAvailable() { final IllegalStateException result = new IlleagalStateException(String.format(getLoggingLocale(),
noConfidentialPortAvailable$str()));

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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-2-1-0-final-sources-jar/io/undertow/servlet/handlers/RedirectDirHandler.java

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 */

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* /opt/cola/permits/1137898389_1614163545.94/0/spring-cloud-netflix-archaius-2-2-3-release-sources-1-
  jar/org/springframework/cloud/netflix/archaius/ArchaiusAutoConfiguration.java
  *
  * /opt/cola/permits/1137898389_1614163545.94/0/spring-cloud-netflix-archaius-2-2-3-release-sources-1-
  jar/org/springframework/cloud/netflix/archaius/ConfigurableEnvironmentConfiguration.java
  *
  * /opt/cola/permits/1137898389_1614163545.94/0/spring-cloud-netflix-archaius-2-2-3-release-sources-1-
  jar/org/springframework/cloud/netflix/archaius/ArchaiusDelegatingProxyUtils.java
  *
  * /opt/cola/permits/1137898389_1614163545.94/0/spring-cloud-netflix-archaius-2-2-3-release-sources-1-
  jar/org/springframework/cloud/netflix/archaius/ArchaiusEndpoint.java
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  jar/META-INF/maven/org.springframework.cloud/spring-cloud-netflix-archaius/pom.xml

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/* Handle large integers for calculating big tape lengths and the
like. In practice, double precision does for now. On the vast
majority of machines, it counts up to 2**52 bytes without any loss
of information, and counts up to 2**62 bytes if data are always
blocked in 1 kB boundaries. We'll need arbitrary precision
arithmetic anyway once we get into the 2**64 range, so there's no
point doing anything fancy before then. */

#define TARLONG_FORMAT "%.0f"
typedef double tarlong;

1.2542 open-vm-tools 10.1.5

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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.)

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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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
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6. As an exception to the Sections above, you may also combine or
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>>> icu4c-4.4.1

ICU License - ICU 1.8.1 and later

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/InstrumentedQueuedThreadPool.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimedRunnable.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/WarnThenDebugLogger.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimedCallable.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyServerThreadPoolMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyConnectionMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/TimedHandler.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/mongodb/MongoMetricsConnectionPoolListener.java

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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/push/PushMeterRegistry.java
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  jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionCounter.java 
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  jar/io/micrometer/core/instrument/Measurement.java 
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1.5.1-sources-
  jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisher.java 
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/MeterRegistry.java
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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

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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.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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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

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/ws_local/PERMITS_SQL/1094803147_1601321847.24/0/wildfly-elytron-ssl-1-11-4-final-sources-jar/org/wildfly/security/ssl/SSLEExplorer.java

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1.2557 initramfs-tools 0.122ubuntu8.15

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This package was debianized by Jeff Bailey <jbailey@ubuntu.com> on Thu, 27 Jan 2005 15:23:52 -0500.

The current Debian maintainer are maximilian attems <maks@debian.org> and Michael Prokop <mika@debian.org>.

The current ubuntu release can be found at: http://archive.ubuntu.com/ubuntu/pool/main/i/initramfs-tools/

The Debian tree is maintained with "git" at: https://anonscm.debian.org/git/kernel/initramfs-tools.git
https://anonscm.debian.org/cgit/kernel/initramfs-tools.git

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1.2558 wildfly-http-transaction-client

1.0.20.Final

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org.wildfly.httpclient.transaction.HttpRemoteTransactionProvider
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1.2559 servlet-api 2.5
1.2560 jetty-util 9.4.16.v20190411

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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

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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.
http://openjdk.java.net/legal/gplv2+ce.html
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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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

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/ws_local/PERMITS_SQL/1074949378_1596001563.8/0/jboss-logmanager-2-1-14-final-sources-1.jar/org/jboss/logmanager/filters/AllFilter.java
- /opt/ws_local/PERMITS_SQL/1074949378_1596001563.8/0/jboss-logmanager-2-1-14-final-sources-1.jar/org/jboss/logmanager/config/FilterConfiguration.java
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- /opt/ws_local/PERMITS_SQL/1074949378_1596001563.8/0/jboss-logmanager-2-1-14-final-sources-1.jar/org/jboss/logmanager/filters/LevelRangeFilter.java
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org.jboss.logmanager.LogManager

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org.jboss.logmanager.JBossLoggerFinder

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* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/TraceRecordComponentVisitor.java
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* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/TraceModuleVisitor.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/CheckModuleAdapter.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java

1.2578 netbase 5.4

1.2578.1 Available under license:
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1.2579 openssh 7.6
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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define_COMPAT_POLL_H_
#endif

typedef struct pollfd {
  int fd;
}
typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLErr 0x0008
#define POLLErrHup 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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* @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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*
*/

#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 */

1.2580 feign-slf4j 10.10.1
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1.2581 jul-to-slf4j-stub 1.0.1.Final

1.2582 debianutils 4.8.6.1

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The End

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Found in path(s):
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/MailMessage.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/transaction/TransactionAwareCacheManagerProxy.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/MailException.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/QuartzJobBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java

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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
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```

```
# Defaults for the Java Activation Framework (revised).
#
# Modified extensions registered in this file:
# text/plain java c c++ cpp pl cc h
# image/png
# image/svg+xml
# text/html htm HTML HTM
# text/plain TXT TEXT java c c++ cpp pl cc h
# image/gif
# image/jpeg jpg jpeg JPG
# image/tiff tif
# application/x-xwindowdump xwd
# application/postscript eps ps
# application/rtf rtf
# application/x-tex tex
# application/x-texinfo texinfo texi
# application/x-troff tr roff
# audio/basic au
# audio/mid mid
# audio/x-aif aifc
```
audio/x-aiff aiff
audio/x-mpeg mpeg mpg
audio/x-wav wav
video/mpeg mpeg mpg mpe
video/quicktime qt mov
video/x-msvideo avi

# Additional file types adapted from
# http://sites.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by Ian Graham.
#
# TEXT TYPES

text/x-speech talk
text/css css
text/csv csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap xbm
# X-Windows pixelmap (8-bit color)
image/x-xpixmap ppm
# Portable Network Graphics
image/png
# Scalable Vector Graphics
image/svg+xml
# Image Exchange Format (RFC 1314)
image/ief
# RGB
image/rgb
# Group III Fax (RFC 1494)
image/g3fax g3f
# X Windowdump format
image/x-xwindowdump xwd
# Macintosh PICT format
image/x-pict
# PPM (UNIX PPM package)
image/x-portable-pixmap ppm
# PGM (UNIX PPM package)
image/x-portable-graymap pgm
# PBM (UNIX PPM package)
image/x-portable-bitmap pbm
# PNM (UNIX PPM package)
image/x-portable-anymap
# Microsoft Windows bitmap
image/x-ms-bmp
# CMU raster
image/x-cmu-raster
# Kodak Photo-CD
image/x-photo-cd
# Computer Graphics Metafile
image/cgm
# CALS Type 1 or 2
image/x-cals
# Fractal Image Format (Iterated Systems)
image/fif
# QuickSilver active image (Micrografx)
image/x-mgx-dsf
# CMX vector image (Corel)
image/x-cmx
# Wavelet-compressed (Summus)
image/wavelet
# AutoCad Drawing (SoftSource)
image/vnd.dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf
# Simple Vector Format (SoftSource)
image/vnd.svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# "basic" audio - 8-bit u-law PCM
audio/basic
# Macintosh audio format (A1pple)
audio/x-aiff
# Microsoft audio
audio/x-wav
# MPEG audio
audio/x-mpega
# MPEG-2 audio
audio/x-mpeg-2
# compressed speech (Echo Speech Corp.)
audio/echo
# Toolvox speech audio (Voxware)
audio/voxware
# RapidTransit compressed audio (Fast Man)
application/fastman
# Realaudio (Progressive Networks)
application/x-pn-realaudio
# MIDI music data
x-music/x-midi

---

Open Source Used in MSX SD-WAN Service Pack 4.0.0 24804
# Koan music data (SSeyo)
application/vnd.koan

# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpegmpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideo avi
# SGI Movie format
video/x-sgi-moviemovie
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscriptai eps ps
# Microsoft Rich Text Format
application/rtfrtf
# Adobe Acrobat PDF
application/pdfpdf
# Maker Interchange Format (FrameMaker)
application/vnd.mifmif
# Troff document
application/x-troff tr roff
# Troff document with MAN macros
application/x-troff-manman
# Troff document with ME macros
application/x-troff-meme
# Troff document with MS macros
application/x-troff-msms
# LaTeX document
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text/javascript

*UNIX* bourne shell program
application/x-sh

*UNIX* c-shell program
application/x-csh

Perl program
application/x-perl

Tcl (Tool Control Language) program
application/x-tcl

**# ANIMATION/MULTIMEDIA**

FutureSplash vector animation (*FutureWave*)
application/futuresplash

mBED multimedia data (*mBED*)
application/mbedlet

PowerMedia multimedia (*RadMedia*)
application/x-rad-powermedia

**# PRESENTATION**

PowerPoint presentation (*Microsoft*)
application/mspowerpoint

ASAP WordPower (*Software Publishing Corp.*)
application/x-asap

Astound Web Player multimedia data (*GoldDisk*)
application/astound

**# SPECIAL EMBEDDED OBJECT**

OLE script e.g. Visual Basic (*Ncompass*)
application/x-olescript

OLE Object (*Microsoft*/*NCompass*)
application/x-oleobject

OpenScape OLE/OCX objects (*Business@Web*)
x-form/x-openscape

Visual Basic objects (*Amara*)
application/x-webbasic

Specialized data entry forms (*Alpha Software*)
application/x-alpha-form

client-server objects (*Wayfarer Communications*)
x-script/x-wxclient

**# GENERAL APPLICATIONS**

Undefined binary data (often executable progs)
application/octet-stream

Pointcast news data (Pointcast)
application/x-pcnpcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excel
# PowerPoint (Microsoft)
application/vnd.ms-powerpoint
# Microsoft Project (Microsoft)
application/vnd.ms-project
# SourceView document (Dataware Electronics)
application/vnd.svd
# Net Install - software install (20/20 Software)
application/x-net-installs
# Carbon Copy - remote control/access (Microcom)
application/cccv
# Spreadsheets (Visual Components)
workbook/formulaone

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlvrml
# WIRL - VRML data (VREAM)
x-world/x-vream
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsrvr
# WebActive 3d data (Plastic Thought)
x-world/x-wwrwvr
# QuickDraw3D scene data (Apple)
x-world/x-3d3mf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica
# Computational meshes for numerical simulations
x-model/x-meshmsh
# Vis5D 5-dimensional data
application/vis5dv5d
# IGES models -- CAD/CAM (CGM) data
application/igesigs
# Autocad WHIP vector drawings
drawing/x-dwf

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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/javamail/MimeMessagePreparator.java

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* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
  jar/org/springframework/scheduling/quartz/DelegatingJob.java

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jar/com/google/common/collection/TransformedIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
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jar/com/google/common/io/MultiReader.java
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jar/com/google/common/util/concurrent/ListenableFutureTask.java
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jar/com/google/common/util/FileBackedOutputStream.java
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jar/com/google/common/primitives/Bytes.java
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jar/com/google/common/primitives/Ints.java
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jar/com/google/common/util/concurrent/DirectExecutor.java
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jar/com/google/common/util/concurrent/DirectExecutor.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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  jar/com/google/common/collect/CompactHashing.java
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/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java
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  jar/com/google/common/collection/StandardTable.java
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  jar/com/google/common/collection/HashBasedTable.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableListMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractTreeMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractSortedMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractTreeMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractMultisetMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractTreeMultisetMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractTreeMultisetMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractTreeMultisetMap.java
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/LittleEndianByteArray.java
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 */
/**
 * Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
 * version.
 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/DoublesMethodsForWeb.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableSortedSet.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/JdkBackedImmutableMultiset.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AtomicLongMap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Count.java
jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/AbstractRangeSet.java

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jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingLock.java

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 */
/*
/**
 * Holder for web specializations of methods of {code Floats}. Intended to be empty for regular
 * version.
 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/Streams.java
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  jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/MultimapBuilder.java
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*/
/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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*/

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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
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 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/base/SmallCharMatcher.java
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* limitations under the License. */
/** *
* Returns an array containing all of the elements in the specified collection. This method *
* returns the elements in the order they are returned by the collection's iterator. The returned *
* array is "safe" in that no references to it are maintained by the collection. The caller is *
* thus free to modify the returned array.
 *
* <p>This method assumes that the collection size doesn't change while the method is running.
 * *
* <p>TODO(kevinb): support concurrently modified collections?
 * *
* @param c the collection for which to return an array of elements */

Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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  jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ForwardingImmutableCollection.java
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jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/GraphBuilder.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeToInstanceMap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/WriteMode.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CharSink.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/LongAddable.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/ClassLoader.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/graph/Graphs.java

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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 * *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {link
 * ImmutableSortedMap#of(Comparable, Object)}. </b>
 */

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/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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*/

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jar/com/google/common/collct/Hashing.java

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jar/com/google/common/collection/AbstractSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Present.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/EmptyContiguousSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Enums.java
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jar/com/google/common/cache/LoadingCache.java
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jar/com/google/common/hash/Murmur3_128HashFunction.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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jar/com/google/common/base/Ticker.java
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jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/AbstractLoadingCache.java
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jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Types.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/cache/package-info.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/RegularContiguousSet.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/TreeRangeSet.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/RegularImmutableMultiset.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/cache/AbstractCache.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashCode.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/LinkedHashMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Multimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Multimaps.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Interner.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/BiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/EnumBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ForwardingIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Synchronized.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Lists.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/AbstractMapEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ListMultimap.java
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* /opt/ cola/ permits/1110737159_1606846951.59/0/guava-29.0-jre-sources-3-jar/com/google/common/cache/Striped64.java
* /opt/ cola/ permits/1110737159_1606846951.59/0/guava-29.0-jre-sources-3-jar/com/google/common/cache/LongAdder.java
* /opt/ cola/ permits/1110737159_1606846951.59/0/guava-29.0-jre-sources-3-jar/com/google/common/util/concurrent/AtomicDoubleArray.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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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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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
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// * Constructs a new {@link BasicInterpreter} for the latest ASM API version. <i>Subclasses must
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1.2603 logrus 1.4.2

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1.2604 aws-sdk-go 1.25.41

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1.2605 datatype 1.4.01

1.2606 lucene-queryparser 7.7.0

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* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
* https://github.com/eclipse-ee4j/jaxb-stax-ex
* https://github.com/eclipse-ee4j/jax-rpc-ri

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* **License:** MIT License

**dom4j (1.6.1)**

* **License:** Custom license based on Apache 1.1

**file-management (3.0.0)**

* **License:** Apache-2.0
  * **Project:** https://maven.apache.org/shared/file-management/
  * **Source:**
    https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

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  * **Project:** https://maven.apache.org/ref/3.5.2/maven-compat/
  * **Source:**
    https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

**maven-core (3.5.2)**

* **License:** Apache-2.0
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  * **Source:** https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

**maven-plugin-annotations (3.5)**
* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
  * Source:
    https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

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maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
  * Source:
    https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

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maven-settings (3.5.2)

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  * Source:
    https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

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- License: Apache License, 2.0

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- Project: https://codehaus-plexus.github.io/plexus-archiver/
- Source: https://github.com/codehaus-plexus/plexus-archiver

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Sax (0.2)

- License: SAX-PD
- Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

- License: Apache-2.0 AND (MIT OR GPL-1.0+)
- Project: https://testng.org/doc/index.html
- Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

- License: Pending
- Project: https://maven.apache.org/wagon/

xz for java (1.8)

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1.2609 golang-glog v0.0.0-20160126235308-23def4e6c14b

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### 1.2619 cryptodev-linux 1.9

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* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java

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jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
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jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
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jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/ssl/NotSslRecordException.java
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jar/io/netty/handler/stream/ChunkedNioFile.java
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jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
jar/io/netty/handler/logging/logLevel.java
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  jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
  jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
  jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
  jar/io/netty/handler/ssl/Java9SslEngine.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
  jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
  jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
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* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
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* /opt/cola/permits/1111556641_1606933705.88/0/netty-handler-4-1-22-final-sources-
  jar/io/netty/handler/ssl/Java9SslUtils.java

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1.2629 picketlink-idm-impl 2.5.5.SP12-redhat-00006

1.2629.1 Available under license :

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1.2630 akka 2.5.22

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1.2635 packagegroup-core-boot 1 r17.0

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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-db
Summary: Minimal boot requirements - Debugging files
Group: devel
Suggests: base-passwd-dbg
Suggests: initscripts-dbg
Suggests: upstart-dbg
Suggests: init-ifupdown-dbg
Suggests: busybox-hwclock-dbg
Suggests: udev-dbg
Suggests: modutils-initscripts-dbg
Suggests: busybox-dbg
Suggests: netbase-dbg
Suggests: update-alternatives-opkg-dbg
Suggests: base-files-dbg
Suggests: wr-init-dbg
Recommends: packagegroup-core-boot = 1.0-r17.0

%description -n packagegroup-core-boot-dbg
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-dev
Summary: Minimal boot requirements - Development files
Group: devel
Requires: packagegroup-core-boot = 1.0-r17.0
Suggests: base-passwd-dev
Suggests: netbase-dev
Suggests: udev-dev
Suggests: base-files-dev
Suggests: busybox-hwclock-dev
Suggests: modutils-initscripts-dev
Suggests: busybox-dev
Suggests: update-alternatives-opkg-dev
Suggests: wr-init-dev
Suggests: upstart-dev
Suggests: init-ifupdown-dev
Suggests: initscripts-dev

%description -n packagegroup-core-boot-dev
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-dbg
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):
* /opt/ws_local/PERMITS_SQL/1077917083_1597189465.75/0/packagegroup-core-boot-1.0-r17.0-1.src.rpm-cosi-expand-archive-qI6em79x/packagegroup-core-boot.spec

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* /opt/ws_local/PERMITS_SQL/1013453709_1591768808.43/0/jakarta-inject-api-1-0-sources-jar/javax/inject/Qualifier.java
* /opt/ws_local/PERMITS_SQL/1013453709_1591768808.43/0/jakarta-inject-api-1-0-sources-jar/javax/inject/Inject.java
* /opt/ws_local/PERMITS_SQL/1013453709_1591768808.43/0/jakarta-inject-api-1-0-sources-jar/javax/inject/package-info.java
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jar/javax/inject/Scope.java
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* /opt/ws_local/PERMITS_SQL/1013453709_1591768808.43/0/jakarta-inject-api-1-0-sources-jar/META-INF/maven/jakarta.inject/jakarta.inject-api/pom.xml

1.2639 wildfly-cmp 19.1.0.Final

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### 1.2658 smallrye-metrics 2.4.0

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1.2672 pycparser 2.18

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pycparser -- A C parser in Python

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* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/logging/logback/LogbackConfigurer.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/context/event/ApplicationPreparedEvent.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/bind/PatternPropertyNamePatternsMatcher.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/jta/atomikos/AtomikosDependsOnBeanFactoryPostProcessor.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/context/properties/package-info.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/liquibase/package-info.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/orm/jpa/package-info.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/context/embedded/undertow/package-info.java
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* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/bind/StringToCharArrayConverter.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/context/embedded/jetty/JettyServerCustomizer.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/json/JsonSimpleJsonParser.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1.jar/org/springframework/boot/ansi/package-info.java
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* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/orm/jpa/hibernate/SpringPhysicalNamingStrategy.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/PortInUseException.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/web/servlet/DelegatingFilterProxyRegistrationBean.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/logging/logback/LevelRemappingAppender.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/logging/LoggingSystem.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/Compression.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/diagnostics/FailureAnalysis.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/undertow/FileSessionPersistence.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/diagnostics/analyzer/ConnectorStartFailureAnalyzer.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/orm/jpa/hibernate/SpringJtaPlatform.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/info/BuildProperties.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedErrorHandler.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/bind/PropertySourcesBinder.java

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jar/org/springframework/boot/diagnostics/analyzer/BeanCurrentlyInCreationFailureAnalyzer.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/InitParameterConfiguringServletContextInitializer.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/jta/bitronix/PoolingDataSourceBean.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/event/ApplicationStartingEvent.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/diagnostics/package-info.java

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* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/WebApplicationContextServletContextAwareProcessor.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/json/YamlJsonParser.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/jetty/package-info.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/logging/logback/ColorConverter.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/properties/ConfigurationPropertiesBindingPostProcessorRegistrar.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/logging/logback/WhitespaceThrowiableProxyConverter.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/EmbeddedServletContainerException.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/logging/logback/ExtendedWhitespaceThrowableProxyConverter.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/logging/logback/ExtendedWhitespaceThrowableProxyConverter.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/tomcat/package-info.java
* /opt/cola/permits/1111409396_1606911195.45/0/spring-boot-1-5-2-release-sources-1-
jar/org/springframework/boot/context/embedded/tomcat/TomcatContextCustomizer.java
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**<p>A simple Taglet which handles Copyright information.</p>* /
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 © " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        }
    }
}

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 &amp;#169; " + tags[i].text() + "</i></dt>");
        }
    result.append("</dl>");
    return result.toString();
}
else {
    return null;
}
</file>

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That's all there is to it!

// 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 implies(::java::security::Permission *) = 0;
    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 = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#endif // __java_security_Permission__
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@c man end
@end ignore
@node Copying
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@example
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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@end example

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/* Permission.java -- The superclass for all permission objects

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obligated to do so. If you do not wish to do so, delete this
exception statement from your version. */

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.
 */
public abstract class Permission implements Guard, Serializable {

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * This method implements the <code>Guard</code> interface for this class.
     * It calls the <code>checkPermission</code> method in <code>SecurityManager</code>
     * with this <code>Permission</code> as its argument. This method returns silently if
     * the security check succeeds or throws an exception if it fails.
     *
     * @param obj the <code>Object</code> being guarded - ignored by this class
     * @throws SecurityException if the security check fails
     * @see GuardedObject
     * @see SecurityManager#checkPermission(Permission)
     */
    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
/**
 * This method tests whether this <code>Permission</code> implies that the
 * 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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That's all there is to it!
Version 3, 29 June 2007

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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.

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.

^L

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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.
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.)

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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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:

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.

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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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^L

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

That's all there is to it!

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

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The code is distributed under the GNU General Public License version 3 along with an exception described in the GCC Runtime Library Exception, version 3.1 as follows (or see the file COPYING.RUNTIME):

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Version 3.1.31 March 2009

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The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine bytecode, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

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We can probably offer suggestions.

#!/usr/bin/python
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#
# This script is free software; you can redistribute it and/or modify
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# 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.

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 + '\n')
        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',
        ])

    def root_dir (self):
        return self.own_files

    def absolute_path (self, path):
        return os.path.abspath (path)

    def is_file (self, path):
        return os.path.isfile (path)

    def is_dir (self, path):
        return os.path.isdir (path)

    def pattern_matches (self, pattern, path):
        return re.match (pattern, path)

    def is_tree (self, path):
        return os.path.isdir (path)

    def is_binary (self, path):
        return os.path.isfile (path) and os.path.getsize (path) > 0

    def is_text (self, path):
        return os.path.isfile (path) and os.path.getsize (path) > 0

    def is_valid (self, path):
        return os.path.isfile (path) and os.path.getsize (path) > 0
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    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
    # 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 ('	')
    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
    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',
    )

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltprofiles.m4',
'ltversion.m4',
'lt-obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip imported texinfo files.
'texinfo.tex',
)}
if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.ami'):
        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 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.name_re = re.compile (ranges + name)
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 + '\.,?\n    '@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 + '(?:\s?' + 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 (r'copyright.*[0-9][0-9]',  
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

self.use_quilt = False

self.max_year = None

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])
    index = holder.find ('', index + 1)

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
    elif len (string) == 4:
        return year
    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.
mMatch = 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 ' '))
# 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:
            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
                else:
                    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()):
def o_help(self, option = None):
sys.stdout.write('Usage: %s [options] dir1 dir2...
' % sys.argv[0])
    format = '%-15s %s
'
for (what, help) in self.option_help:
    sys.stdout.write(format % (what, help))
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[:1] != '-':
            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 (]
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    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 (]
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (]
            # Imported from GLIBC.
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',

# Contains imported images
'images',
]

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_package_author ('ARM')
    self.add_package_author ('AdaCore')
    self.add_package_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_package_author ('Cavium Networks.')
    self.add_package_author ('Faraday Technology Corp.')
    self.add_package_author ('Florida State University')
    self.add_package_author ('Greg Colvin and Beman Dawes.')
    self.add_package_author ('Hewlett-Packard Company')
    self.add_package_author ('Information Technology Industry Council.')
    self.add_package_author ('James Theiler, Brian Gough')
    self.add_package_author ('Makoto Matsumoto and Takuji Nishimura,')
    self.add_package_author ('National Research Council of Canada.')
    self.add_package_author ('NVIDIA Corporation')
    self.add_package_author ('Peter Dimov and Multi Media Ltd.')
    self.add_package_author ('Peter Dimov')
    self.add_package_author ('Pipeline Associates, Inc.')
    self.add_package_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')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

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('libcpp', LibCppFilter())
        self.add_dir('libdecmodule')
        # 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')
        # libsanitise 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.
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LLVM Team

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
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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.

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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 to protect the user's freedom than the ordinary General Public License. It also provides other free software developers 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
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java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString()Ljava/lang/String;
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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));

#define __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@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 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.

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS 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.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

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 */
#endif

#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, "%t.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)))

#if defined 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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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*--
#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
#define __gnu_javax_sound_AudioSecurityManager$Permission__

#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__

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1.2707 wildfly-io 11.1.1.Final
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*/

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* /opt/cola/permits/1136565825_1613797600.26/0/asm-analysis-6-2-sources-2-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java

1.2742 strace 4.20
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1.2743 wildfly-weld-common 19.1.0.Final

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1.2748 jdom 1.0

1.2749 jboss-metadata-common 13.0.0.Final

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* configure.ac, Makefile.am: The original versions were derived from the
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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.

  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.
* 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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The End

1.2791 javassist 3.20.0-GA

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<li><a href="http://people.apache.org/committer-index.html">Committer Index</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
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<li><a href="http://community.apache.org/">Community Development</a></li>
<li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
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</ul>
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<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
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</div>

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</script>
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Preamble

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How to Apply These Terms to Your New Libraries

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1.2793 xml-commons-resolver 1.2

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java

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<signature of Ty Coon>, 1 April 1989
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http://iccf-holland.org/
http://www.vim.org/iccf/
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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 *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:et:ft=help:norl:
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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("b:current_syntax")
    finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
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.
Define the default highlighting.
Only when an item doesn't have highlighting yet

1.2806 lrzsz 0.12.20
1.2806.1 Available under license:

This is the Debian GNU/Linux prepackaged version of lrzsz.

This package was put together by Uwe Ohse <uwe@ohse.de>. I don't really know how to handle debian packages, so don't be surprised if something is wrong.

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Version 2, June 1991

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  jar/org/xnio/channels/BlockingByteChannel.java
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  jar/org/xnio/streams/LimitedOutputStream.java
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* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/ClosedWorkerException.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/TypeSequenceOption.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/SequenceOption.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/bits.jsseSslUtils.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/SequenceOption.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/TypeOption.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/XnioExecutor.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/XnioWorker.java

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* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/CompressionType.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/channels/ProtectedWrappedChannel.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/channels/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
jar/org/xnio/_private/Messages.java
*/
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/channels/SplitStreamSinkChannel.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/channels/SplitStreamSourceChannel.java
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* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/ssl/XnioSsl.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/ssl/JsseSslConduitEngine.java
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  jar/org/xnio/channels/SimpleAcceptingChannel.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
  jar/org/xnio/BufferAllocator.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
  jar/org/xnio/sasl/SaslWrapper.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
  jar/org/xnio/Property.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
  jar/org/xnio/XnioFileChannel.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
  jar/org/xnio/streams/Streams.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
  jar/org/xnio/ChannelListeners.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
  jar/org/xnio/channels/TranslatingSuspendableChannel.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
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* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-
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* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/http/RedirectException.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/http/HttpUpgrade.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/BlockingStreamSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/AutomaticReference.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/DeflatingStreamSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/StreamSinkChannelWrappingConduit.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/package-info.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/NullStreamSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/AbstractSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/MessageSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/ConduitStreamSourceChannel.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/FramingMessageSinkConduit.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/ConduitReadableByteChannel.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/FileChangeEvent.java
* /opt/ws_local/PERMITS_SQL/1094801617_1601321960.02/0/xnio-api-3-7-7-final-sources-jar/org/xnio/conduits/FileChangeCallback.java

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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/u.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfd2bb5b6.

  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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<xs1:with-param name="years" select="year"/>
</xs1:call-template>
<xs1:text> </xs1:text>
<xs1:value-of select="holder"/>
<xs1:value-of select="$isc.copyright.breakline"/>
<xs1:call-template>
<xs1:for-each>
<xs1:value-of select="$isc.copyright.text"/>  
</xs1:for-each>
</xs1:call-template>
</xs1:variable>
</xs1:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->

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1.2811 jsonpb 1.3.2

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1.2812 api-ldap-extras-trigger 1.0.0-M20

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 */
/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * {@link #queueCapacity(int) queueCapacity} is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in {ThreadPoolExecutor} for
 * more details.
 * <p>By default this is set to {Integer.MAX_VALUE}.
 */

Found in path(s):
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/support/AbstractSubscribableChannel.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/user/UserDestinationResolver.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompCommand.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/config/TaskExecutorRegistration.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompReactorNettyCodec.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/ConnectionLostException.java

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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-jar/org/springframework/cloud/stream/micrometer/ApplicationMetricsProperties.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-jar/org/springframework/cloud/stream/converter/ObjectStringMessageConverter.java

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  jar/org/springframework/cloud/stream/provisioning/ProducerDestination.java
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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  jar/org/springframework/cloud/stream/annotation/EnableBinding.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binder/BinderFactory.java
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jar/org/springframework/cloud/stream/binding/BinderType.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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 * This plugin class provides 2 ways to customize [@link Scheduler] functionality
 * 1. You may redefine entire schedulers, if you so choose. To do so, override
 * the 3 methods that return Scheduler (io(), computation(), newThread()).
 * 2. You may wrap/decorate an [@link Action0], before it is handed off to a Scheduler. The system-
 * supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
* Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
* modify Scheduler functionality without redefining Schedulers wholesale.

* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
  *
  * See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:

*/

Found in path(s):
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-
jar/rx/plugins/RxJavaSchedulersHook.java

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core/src/main/java/org/jctools/queues/SpscLinkedQueue.java
*

Found in path(s):
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-
jar/rx/internal/unsafe/SpscLinkedQueue.java

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  core/src/main/java/org/jctools/queues/ConcurrentCircularArrayQueue.java
*/

Found in path(s):
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-
  jar/rx/internal/util/unsafe/ConcurrentCircularArrayQueue.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/annotations/package-info.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/InternalObservableUtils.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeOnAssembly.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operator/operators/OnSubscribeDetach.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/exceptions/package-info.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleTakeUntilObservable.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SimpleSource.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribe.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleDoOnSubscribe.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleFromEmitter.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeOnAssembly.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operator/operators/SingleTakeUntilObservable.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operator/operators/OnSubscribe.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operator/operators/NeverObservableHolder.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeDetach.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/functions/Cancellable.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/schedulers/SchedulerWhen.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleLiftObservableOperator.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/ObserverSubscriber.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/subscriptions/Unsubscribed.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleOnErrorReturn.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/observables/package-info.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeCreate.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/schedulers/SchedulePeriodicHelper.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleTakeUntilCompletable.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/exceptions/AssemblyStackTraceException.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/BackpressureOverflow.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleTimeout.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/Emitter.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/subjects/package-info.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/ActionNotificationObserver.java
jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/ExceptionsUtils.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeReduceSeed.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribePublishMulticast.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleOperatorZip.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util.SuppressAnimalSniffer.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/schedulers/SchedulerLifecycle.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeTakeLastOne.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/OnSubscribeReduce.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/SingleOnSubscribeUsing.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/singles/BlockingSingle.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/observables/AsyncOnSubscribe.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/util/BlockingUtils.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/SingleSubscriber.java
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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/SingleEmitter.java
* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1-jar/rx/internal/operators/CompletableFromEmitter.java

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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
https://github.com/JCTools/JCTools

JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools
as a "shadow" dependency (https://github.com/ReactiveX/RxJava/issues/1735).
RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an
externally visible dependency that results in a separate jar.

The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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* /opt/cola/permits/1145449550_1616155815.36/0/rxjava-1-3-8-sources-1.jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
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  jar/org/wildfly/security/WildFlyElytronHttpBasicProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-
  jar/org/wildfly/security/WildFlyElytronHttpFormProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-
  jar/org/wildfly/security/WildFlyElytronHttpClientCertProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-
  jar/org/wildfly/security/WildFlyElytronHttpDigestProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-
  jar/org/wildfly/security/WildFlyElytronHttpSpnegoProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-
  jar/org/wildfly/security/WildFlyElytronHttpBearerProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-
  jar/org/wildfly/security/VersionedProvider.java
* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-
  jar/org/wildfly/security/WildFlyElytronDigestProvider.java

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  jar/org/wildfly/security/package-info.java
1.2821 hdrhistogram 2.1.9

1.2822 httpcomponents-client 4.2.6

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1.2823 xmltooling 1.4.4

1.2824 angular-bootstrap 0.13.0

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* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/package-info.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/Codec.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/Compressor.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/Internal.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/StatusRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/DecompressorRegistry.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/PartialForwardingServerCallListener.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/ManagedChannelProvider.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/StatusException.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/ForwardingClientCallListener.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/Decompressor.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/NameResolver.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/ServerBuilder.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/EquivalentAddressGroup.java
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* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/ClientInterceptor.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/ClientInterceptors.java
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* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/StreamTracer.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/ForwardingChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/ForwardingChannelBuilder.java
jar/io/grpc/InternalServiceProviders.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-
jar/io/grpc/InternalLogId.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-
jar/io/grpc/InternalInstrumented.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-
jar/io/grpc/InternalWithLogId.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-
jar/io/grpc/ServiceProviders.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-
jar/io/grpc/InternalStatus.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-
jar/io/grpc/InternalServerInterceptor.java
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jar/io/grpc/ServerStreamTracer.java

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jar/io/grpc/NameResolverRegistry.java
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jar/io/grpc/InternalCallOptions.java
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* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/LoadBalancerRegistry.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/InternalClientInterceptors.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/ChannelLogger.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/InternalChannelz.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/SynchronizationContext.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/PartialForwardingClientCall.java
* /opt/ws_local/PERMITS_SQL/1094801814_1601321367.4/0/grpc-api-1-28-0-sources-jar/io/grpc/InternalChannelz.java
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  jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
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jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/timeout/WriteTimeoutException.java
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* /opt/cola/permits/1147423440_1617010749.87/0/spring-aspects-4-3-7-release-sources-4-jar/org/springframework/cache/aspectj/AspectJJCacheConfiguration.java

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1.2843 wildfly-bean-validation 19.1.0.Final

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1.2844 lodash 4.17.20

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1.2845 python-enum 1.1.6 r0

1.2846 checkstyle 6.1.1

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Version 2.1, February 1999

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##
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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)

* License: Eclipse Public License
1.2852 jctools-core 3.0.0
1.2852.1 Available under license:

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<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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?url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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<developers>
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* /opt/cola/permits/1150945500_1617726836.89/0/jctools-core-3-0-0-4-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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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
Export-Package: org.jctools.maps;version="3.0.0",org.jctools.util;version="3.0.0",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.atomic;version="3.0.0",org.jctools.queues.org
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
1.2853 dhcp 4.1.1

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1.2854 commons-daemon 1.0.13

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1.2855 reflections 0.9.10

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1.2856 apt 1.8.2.1

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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

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* java.sun.security.ssl

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OW2
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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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

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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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.2869 snake-yaml 1.17

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```
cmd/krb5/iprop/iprop.x
```

```
cmd/krb5/iprop/iprop_hdr.h
```

```
cmd/krb5/kadmin/server/ipropd_svc.c
```

```
cmd/krb5/kproplog/kproplog.c
```

```
cmd/krb5/slave/kpropd_rpc.c
```

```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```

```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```

```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```

```
lib/krb5/kadm5/kadm_host_srv_names.c
```

```
lib/krb5/kdb/kdb_convert.c
```

```
lib/krb5/kdb/kdb_hdr.h
```

```
lib/krb5/kdb/kdb_log.c
```

```
lib/krb5/kdb/kdb_log.h
```

```
lib/libgss/g_accept_sec_context.c
```

```
lib/libgss/g_acquire_cred.c
```

```
lib/libgss/g_canon_name.c
```

```
lib/libgss/g_compare_name.c
```

```
lib/libgss/g_context_time.c
```

```
lib/libgss/g_delete_sec_context.c
```

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lib/libgss/g_dsp_name.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_dup_name.c
lib/gssapi/mechglue/g_dup_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
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

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1.2875 wildfly-clustering-marshalling-infinispan 19.1.0.Final

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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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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/StopParseException.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/MethodResolver.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Number.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/Extensions.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/SerializerSwitcher.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/HasPositionalPredChecker.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemUse.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NodeCounter.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/BinOpExpr.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringFactoryDefault.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemText.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_no.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/OpCodes java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemText.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/AbsPathChecker.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/NodeInfo.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOM3SerializerImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/EndSelectionEvent.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMErrorImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/RoundCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/XML11Char.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Output.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSortKey.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/Expression.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/PsuedoNames.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/LongArrayWrapper.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/ContextNodeList.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Template.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xsltc/compiler/util/MethodType.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorNamespaceAlias.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xsltc/cmdline/ObjectFactory.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xmlutils/XML11Char.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPart.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToUnknownStream.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_zh.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/DOMWSFilter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnparsedEntityUriCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FlowList.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/SecuritySupport.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/util/SerializerMessages_ca.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/util/SerializerMessages_tr.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/cmdline/Compile.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SerializableLocatorImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemPI.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/JNDIConnectionPool.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XNodeSetForDOM.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncstartsWith.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/DescendantIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemApplyImport.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/SecuritySupport.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionContext.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Predicate.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_cs.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/util/JavaCupRedirect.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_sv.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/TreeWalker.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Param.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionScript.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/AdaptiveResultTreeImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNumber.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Compil...
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XSLTVisitor.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/util/IntegerArray.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_it.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitor.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_fr.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_hu.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandler.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_pt_BR.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/TypeCheckError.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorOutputElem.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_ru.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformSnapshot.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/Filter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/SQLErrorDocument.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ArgumentList.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/TestGenerator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/utils/StringComparable.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/SelectionEvent.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XMLNSDecl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMStringListImpl.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/Utils.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/output/WriterOutputBuffer.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/QueryParameter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Instruction.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSum.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemNumber.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FloorCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceListener.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2RTFDTM.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_zh_TW.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionDecl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Import.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_fr.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ErrorMessages_tr.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/DecimalFormatProperties.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AncestorPattern.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_zh_TW.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Parser.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMsgs_tr.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTextLiteral.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMsgs_es.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMsgs_zh_TW.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemUnknown.java
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- /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_de.java
- /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/FuncFormatNumb.java
- /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_es.java
- /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/Arg.java
- /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPath.java
- /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNamespace.java
- /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_de.java
- /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AbsoluteLocationPath.java
- /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorStylesheetElement.java
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limitations under the License.
*/
/**
* 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>/v.r[Dnn]["</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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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.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.
 */
Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
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 */

// Proprietary, built in functions
/** current function string (Proprietary). */

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 */
package org.apache.xalan.xsltc.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.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.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;
* Line number where this expression/pattern was declared.
* /
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 *
 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
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;

        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
        return new StepPattern(axis, nodeType, predicates);
    } else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*") ? -1 : _xsltc.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);
                }

                // 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("*") {  // same for @*
                nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;

                return new StepPattern(axis, nodeType, predicates);
            } else {
                return new StepPattern(axis, nodeType, predicates);
            }
        }
    }
}
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 NodeTest.ATTRIBUTE;
            } 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;
        }
    }
}
/**
 * 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(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
_expression);
_parser.reportError(Constants.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(ErrorMsg.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 ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDING SIBLING;
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 Pattern 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 DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
[^ expression 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
\{ : RESULT = sp ; : \}
| StepPattern:sp SLASH RelativePathPattern:rpp
| { : RESULT = new ParentPattern(sp, rpp); : }

| StepPattern:sp DSLASH RelativePathPattern:rpp
| { : RESULT = new AncestorPattern(sp, rpp); : }

StepPattern ::= NodeTestPattern:nt
| { : RESULT = parser.createStepPattern(Axis.CHILD, nt, null); : }

| 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); : }

NodeTestPattern ::= NameTestPattern:nt
| { : RESULT = nt; : }
| NODE
| { : RESULT = new Integer(NodeTest.ANODE); : }

| TEXT
| { : RESULT = new Integer(NodeTest.TEXT); : }

| COMMENT
| { : RESULT = new Integer(NodeTest.COMMENT); : }

| PI
| { : RESULT = new Integer(NodeTest.PI); : }

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:e
{ : RESULT = e; : }

| 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; : }

| MultiplicativeExpr:me MULT UnaryExpr:ue
\[
\begin{align*}
\text{RESULT} &= \text{new BinOpExpr(BinOpExpr.TIMES, me, ue);} \\
\text{RESULT} &= \text{new BinOpExpr(BinOpExpr.DIV, me, ue);} \\
\text{RESULT} &= \text{new BinOpExpr(BinOpExpr.MOD, me, ue);} \\
\text{RESULT} &= \text{new UnaryOpExpr(ue);} \\
\text{RESULT} &= \text{new UnionPathExpr(pe, rest);} \\
\text{RESULT} &= \text{new FilterParentPath(fexp, rlp);} \\
\text{RESULT} &= \text{new FilterParentPath(fpp, rlp);} \\
\end{align*}
\]

\[
\begin{align*}
\text{RESULT} &= \text{new BinOpExpr(BinOpExpr.TIMES, me, ue);} \\
\text{RESULT} &= \text{new BinOpExpr(BinOpExpr.DIV, me, ue);} \\
\text{RESULT} &= \text{new BinOpExpr(BinOpExpr.MOD, me, ue);} \\
\text{RESULT} &= \text{new UnaryOpExpr(ue);} \\
\text{RESULT} &= \text{new UnionPathExpr(pe, rest);} \\
\end{align*}
\]
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:nnew::{
    if (ntest instanceof Step) {
        RESULT = (Step)nnew;
    }
    else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest),
            null);
    }
}

| NodeTest:nnew Predicates:pp::{
    if (ntest instanceof Step) {
        Step step = (Step)nnew;
        step.addPredicates(pp);
        RESULT = (Step)nnew;
    }
    else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest), pp);
    }
}

| AxisSpecifier:axis NodeTest:nnew Predicates:pp::{
    RESULT = new Step(axis.intValue(),
        parser.findNodeType(axis.intValue(), ntest), pp);
}

| AxisSpecifier:axis NodeTest:nnew::{
    RESULT = new Step(axis.intValue(),
        parser.findNodeType(axis.intValue(), ntest),
        pp);
}
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
| : RESULT = new Integer(Axis.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());

| REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

| FunctionCall:fc
{: RESULT = fc; :};

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
{: // (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
} else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(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);
}
else if (parser.getQNameIgnoreDefaultNs("id").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(Com Statics.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
{: Nonempty Argument List ::= Value:arg
Vector temp = new Vector();
temp.addElement(arg);
RESULT = temp;
:}
| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :}:

FunctionName ::= QName:fname
{: Function Name ::= QName Value:fname
RESULT = fname;
:}

VariableName ::= QName:vname
{: Variable Name ::= QName Value: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
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Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
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* 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.
*/
/*
*/
*/
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
* /
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
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion()
{
}

/**
 * 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.
 */
/**
 * 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;
    }
}

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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*/
/*
$Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/

package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of the Xalan release.
 * 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>
 * 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.
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */

public static String getVersion() {
    }

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
```java
{  
    System.out.println(getVersion());
}

/**
 * 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;
    }
}

Found in path(s):
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 */

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.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
    * name instead of a keyword (Jira-1912).
    */
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.DSЛASH:
        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);
%

%yylexthrow{
    Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
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Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u0969\u09EFu0A66-\u0A6Fu0AE6-\u0AEF\u0B66-\u0B6Fu0BE7-\u0BFE\u0C66-\u0C6Fu0CE6-\u0CEFu0D66-\u0D6Fu0E50-\u0E59u0E0D-\u0E9D\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

Ideographic=[\u04E0-\u09F5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05B9\u05BB-\u05BD\u05F0\u05C1-\u05CCu064B-\u06F9\u0966-\u096F\u09E6-\u09EF\u0AE6-\u0BE7-\u0CF6-\u0D48-\u0D49-\u0D4A-\u0D4F\u0D57u0E31u0E34-\u0E5Au0E47-\u0E4Eu0EB9u0EBB-\u0EBCu0E8-\u0EF8-\u0F3Fu0F37u0F39u0F3Eu0F3Fu0F71u0F84u0F86u0F8Bu0F90-\u0F95u0F97u0F99-\u0FADu0FBB-\u0FB7u0FB9u0FD0-\u0FD2u0F29]

\u013Eu0141-\u0148u014A-\u017Eu0180-\u01C3u01CD-\u01F4u01F5u01FA-\u0217u0250-\u02A8u02BB-\u02C1u0386u0388-\u038Au038Cu038Eu03A1u03A3u03CEu03D0-\u03D6u03DAu03DCu03DEu03E2-\u03F3u0401-\u04C7u04C8u04CB-\u04CCu04D0-\u04EBu04EE-\u04F5u04F8-\u04F9u0531-\u0556u0559u0561-\u0586u05D0-\u05EAu05F0-\u05F2u0621-\u063Au0641u064Au0671u06B7u06BA-\u06B6u06C6u06D0-\u06D3u06D5u06E5u06Eu0905-\u0939u093Du0958-\u0986u0985-\u098Cu098F-\u0999u0993-\u09BAu09B6-\u09B9u09DC-\u09DDu09DF-\u09E1u09F0-\u09F1u0A05-\u0A0Au0A0F-\u0A10u0A32-\u0A33u0A35-\u0A36u0A39u0A59-\u0A5Cu0A5Eu0A72-\u0A74u0A85-\u0A8Bu0A8Du0A8F-\u0A91u0A93-\u0AA8u0AB2-\u0AB3u0AB5-\u0AB9u0ABDu0AE0u0B05-\u0B0Cu0B0F-\u0B10u0B13-\u0B28u0B2A-\u0B30u0B32-\u0B33u0B36-\u0B39u0B3Du0B5C-\u0B5Du0B5F-\u0B61u0B85-\u0B8Au0B8E-\u0B90u0B92-\u0B95u0B99-\u0BA9u0B9E-\u0BB7u0BB9u0C05-\u0C0Cu0C0E-\u0C10u0C12-\u0C28u0C2A-\u0C33u0C35-\u0C39u0C3C-\u0C8Cu0C8E-\u0C90u0C92-\u0CA8u0CAA-\u0CB3u0CB5-\u0CB9u0CDEu0CE0-\u0CE1u0DD5-\u0DDCu0DDOE-\u0DD0u0DD8u0DA2-\u0D90u0D96-\u0D91u0E01-\u0E2Eu0E30u0E32-\u0E33u0E40-\u0E45u0E49u0E81-\u0E82u0E84u0E87-\u0E88u0E8Au0EDDu0E94-\u0E97u0E99-\u0E9Fu0EA1-\u0EA3u0EA7u0EAA-\u0EABu0EAD-\u0EAEu0E0Bu0EB2-\u0EBDu0EC0-\u0EC4u0F40-u0F47u0F49u0F69u10Au10CU5u10D0-\u10F6u1100u1102-\u1103u1105-u1107u1109u110Bu110Cu110E-\u1122u113Cu113Eu1140u114Cu114Eu1150u1154-\u1155u1159u115F-\u1161u1163u1165u1167u1169-\u116Du116Eu1167-\u1173u1175u119Eu11A8u11ABu11AE-\u11AFu11B7-\u11B8u11BAu11BC-\u11C2u11EBu11F0u11F9u1E00-\u1E9Bu1EA0-u1EF9u1F00-\u1F15u1F18-\u1F1Du1F20-u1F45u1F48-u1F4Du1F50-\u1F57u1F59u1F5Bu1F5Du1F5F-u1F7Du1F80-\u1F84u1F86u1FBCu1FBEu1FC2u1FC6u1FCCu1FD0-u1FD3u1FD6-\u1FDBu1FE0-\u1FECu1FF2-\u1F4Fu1FF6-u1FFCu1262u121Au122Bu122Eu1280-\u20D0-\u20DCu3094u30A1-\u30FAu3105-\u312CuAC00u3D7A3]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u0969\u09EFu0A66-\u0A6Fu0AE6-\u0AEF\u0B66-\u0B6Fu0BE7-\u0BFE\u0C66-\u0C6Fu0CE6-\u0CEFu0D66-\u0D6Fu0E50-\u0E59u0E0D-\u0E9D\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46u0EC6u3005u3031-\u3035u309Du039Eu03FC-\u03FE]
NCName=([Letter]|"_"|[NCNameStartChar])\(\{\)NCNameChar\}\)*

NCNameChar=[Letter]|(Digit]|"\-"|"_"|{CombiningChar}|{Extender}|[NCNameStartChar]| \u00B7 | \u0300-\u036F] | \u203F-\u2040] | \u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u0370-\u0377\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2DFF\u2FFD]| \u005F | \{HighSurrogate\} \{LowSurrogate\}

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"+\[ \u0020\u002B\u002F\u0022\u0029\] { return newSymbol(sym.TEXT); }
"node" { return newSymbol(sym.NODE); }
"node"+\[ \u0020\u002B\u002F\u0022\u0029\] { return newSymbol(sym.NODE); }
"comment" { return newSymbol(sym.COMMENT); }
"comment"+\[ \u0020\u002B\u002F\u0022\u0029\] { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PI); }
"processing-instruction"+\[ \u0020\u002B\u002F\u0022\u0029\] { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
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*/

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/** The 'document-location()' id (Proprietary). */

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*/

// is found, then throw a special exception in order to terminate

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1.2888 sysv-init 2.88dsf 59.3ubuntu2

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* in C (faster - it is executed many times during system startup).
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1.2889 jackson-jaxrs 2.4.1

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1.2890 wildfly-deployment-repository

11.1.1.Final

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* /opt/cola/permits/1139559185_1614664057.25/0/parboiled-scala-2-9-3-1-1-7-sources-1.jar/org/parboiled/scala/parserunners/ParseRunner.scala
* /opt/cola/permits/1139559185_1614664057.25/0/parboiled-scala-2-9-3-1-1-7-sources-1.jar/org/parboiled/scala/Parser.scala
* /opt/cola/permits/1139559185_1614664057.25/0/parboiled-scala-2-9-3-1-1-7-sources-1.jar/org/parboiled/scala/parserunners/BasicParseRunner.scala
* /opt/cola/permits/1139559185_1614664057.25/0/parboiled-scala-2-9-3-1-1-7-sources-1.jar/org/parboiled/scala/utils/Predicate.scala
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* /opt/cola/permits/1139559185_1614664057.25/0/parboiled-scala-2-9-3-1-1-7-sources-1.jar/org/parboiled/scala/rules/PopRule.scala
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1.2892 stateless4j 2.5.0

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* /opt/cola/permits/1150916823_1617719494.06/0/stateless4j-2-5-0-sources-6-jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java

1.2893 artemis-hqclient-protocol 2.10.1

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1.2894 dhcp 4.2.4-7ubuntu12.10

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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 3a0982da308228d796df35f98d787c5c5ff2bb5b6.

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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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1.2895 zookeeper 3.6.1

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*/opt/ws_local/PERMITS_SQL/1070629544_1594725510.84/0/zookeeper-3-6-1-sources-
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jar/org/apache/zookeeper/server/quorum/QuorumZooKeeperServer.java
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* /opt/ws_local/PERMITS_SQL/1070629544_1594725510.84/0/zookeeper-3-6-1-sources-
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jar/org/apache/zookeeper/server/quorum/auth/QuorumAuth.java
* /opt/ws_local/PERMITS_SQL/1070629544_1594725510.84/0/zookeeper-3-6-1-sources.jar/org/apache/zookeeper/metrics/impl/NullMetricsProvider.java
* /opt/ws_local/PERMITS_SQL/1070629544_1594725510.84/0/zookeeper-3-6-1-sources.jar/org/apache/zookeeper/metrics/impl/DefaultMetricsProvider.java
* /opt/ws_local/PERMITS_SQL/1070629544_1594725510.84/0/zookeeper-3-6-1-sources.jar/org/apache/zookeeper/server/quorum/LearnerZooKeeperServer.java
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* /opt/ws_local/PERMITS_SQL/1070629544_1594725510.84/0/zookeeper-3-6-1-sources.jar/org/apache/zookeeper/server/EphemeralType.java
* /opt/ws_local/PERMITS_SQL/1070629544_1594725510.84/0/zookeeper-3-6-1-sources.jar/org/apache/zookeeper/server/EphemeralTypeEmulate353.java

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* /opt/ws_local/PERMITS_SQL/1070629544_1594725510.84/0/zookeeper-3-6-1-sources-jar/org/apache/zookeeper/server/watch/WatchesPathReport.java
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* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/Payload.java
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* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/ConstraintValidator.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4.jar/javax/validation/constraints/Digits.java
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  jar/javax/validation/metadata/ParameterDescriptor.java

1.2897 wildfly-elytron-sasl-deprecated
1.11.4.Final

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1.2898 xorg-randr 1.20.8

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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 &lt;a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>&gt; for more details.

*/

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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
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=========  

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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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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/request/FacesRequestAttributes.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/method/annotation/AbstractNamedValueMethodArgumentResolver.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/reactive/ReactorHttpHandlerAdapter.java
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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/filter/RequestContextFilter.java
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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/remoting/jaxws/JaxWsPortProxyFactoryBean.java
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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
 * client, or with a new session id either because the client did not
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 * method does not automatically create a session. See {@link WebSession}
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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# 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
# content languages and encodings, so choose them carefully.
#
# 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
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co#

# MIME type (lowercased)Extensions
# ============================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/a2l
# application/activemessage
# application/andrew-insetez
# application/applefile
# application/applixwareaw
# application/atf
# application/atfx
# application/atom+xml
# application/xmlatomcat
# application/atomdeleted+xml
# 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+jsonml
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# 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 xml
application/mathematica+nb+mb
application/mathml+xml mathml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml
# application/merge-patch+json
application/metalink+xml
application/metalink4+xml
application/mets+xml
# application/mf4
# application/mikey
application/mods+xml
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21
application/mp4
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword
application/mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream
application/oda
application/oda
# application/odx
application/oebps-package+xml
application/ogg
application/omdoc+xml
application/onenote	
application/onenote2
application/onepkg
application/oxps
# application/p2p-overlay+xml
# application/parityfec
Open Source Used In MSX SD-WAN Service Pack 4.0.0 27345
# application/vnd.oma.poc.invocation-descriptor+xml
# application/vnd.oma.poc.optimized-progress-report+xml
# application/vnd.oma.push
# application/vnd.oma.scidm.messages+xml
# application/vnd.oma.xcap-directory+xml
# application/vnd.omads-email+xml
# application/vnd.omads-file+xml
# application/vnd.omads-folder+xml
# application/vnd.omaloc-supl-init
# application/vnd.onepager
# application/vnd.openblox.game+xml
# application/vnd.openblox.game-binary
# application/vnd.openeye.oeb
application/vnd.openoffice.org.extension
# application/vnd.openxmlformats-officedocument.custom-properties+xml
# application/vnd.openxmlformats-officedocument.customxmlproperties+xml
# application/vnd.openxmlformats-officedocument.drawing+xml
# application/vnd.openxmlformats-officedocument.drawingml.chart+xml
# application/vnd.openxmlformats-officedocument.drawingml.chartshapes+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramcolors+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramdata+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramlayout+xml
# application/vnd.openxmlformats-officedocument.drawingml.diagramstyle+xml
# application/vnd.openxmlformats-officedocument.extended-properties+xml
# application/vnd.openxmlformats-officedocument.presentationml.commentauthors+xml
# application/vnd.openxmlformats-officedocument.presentationml.comments+xml
# application/vnd.openxmlformats-officedocument.presentationml.handoutmaster+xml
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# application/vnd.openxmlformats-officedocument.presentationml.notesslide+xml
application/vnd.openxmlformats-officedocument.presentationml.presentation
# application/vnd.openxmlformats-officedocument.presentationml.presentation.main+xml
# application/vnd.openxmlformats-officedocument.presentationml.presprops+xml
application/vnd.openxmlformats-officedocument.presentationml.slidesldx
# application/vnd.openxmlformats-officedocument.presentationml.slide+xml
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application/vnd.openxmlformats-officedocument.presentationml.slideshow
# application/vnd.openxmlformats-officedocument.presentationml.slideupdateinfo+xml
# application/vnd.openxmlformats-officedocument.presentationml.tablestyles+xml
# application/vnd.openxmlformats-officedocument.presentationml.tags+xml
application/vnd.openxmlformats-officedocument.presentationml.templatepotx
# application/vnd.openxmlformats-officedocument.presentationml.template.main+xml
# application/vnd.openxmlformats-officedocument.presentationml.viewprops+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.calcchain+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.chartsheet+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.comments+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.content+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.connections+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.drawingspotlight+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.sheet+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.sheetparameters+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.sheetstyles+xml
# application/vnd.openxmlformats-officedocument.spreadsheetml.templatepot+</xml>
# application/vnd.openxmlformats-officedocument.spreadsheetml.templatepotx
# application/vnd.openxmlformats-officedocument.spreadsheetml.templatepotxml
# application/vnd.sss-ntf
application/vnd.stardivision.calcsdc
application/vnd.stardivision.drawsda
application/vnd.stardivision.impresssdd
application/vnd.stardivision.mathsmf
application/vnd.stardivision.writersdw vor
application/vnd.stardivision.writer-globalsgl
application/vnd.stepmania.packagesmzip
application/vnd.stepmania.stepchartsm
# application/vnd.street-stream
# application/vnd.sun.wadl+xml
application/vnd.sun.xml.calc.templatestc
application/vnd.sun.xml.drawsxdc
application/vnd.sun.xml.draw.templatestd
application/vnd.sun.xml.impresssxixi
application/vnd.sun.xml.impress.templatestdi
application/vnd.sun.xml.mathsxm
application/vnd.sun.xml.writersxw
application/vnd.sun.xml.writerglobalsxg
application/vnd.sun.xml.writer.templatestw
application/vnd.sus-calendarsus susp
application/vnd.svdsvd
# application/vnd.swiftview-ics
application/vnd.symbian.installsis sisx
application/vnd.sncml+xmlxs
application/vnd.sncml.dm+wbxmlbdm
application/vnd.sncml.dm+xmlxmdm
# application/vnd.sncml.dm.notification
# application/vnd.sncml.dmddf+wbxml
# application/vnd.sncml.dmddf+xml
# application/vnd.sncml.dmtnds+wbxml
# application/vnd.sncml.dmtnds+xml
# application/vnd.sncml.dsm.notification
application/vnd.tao.intent-module-archivetao
application/vnd.tcpdump.pcapcapcap cap dmp
# application/vnd.tmd.mediaflex.api+xml
# application/vnd.tmldml
application/vnd.tmobile-livetvmtmo
application/vnd.trid.tptpt
application/vnd.triscape.mxsmsx
application/vnd.trueapptra
# application/vnd.truedoc
# application/vnd.ubisoft.webplayer
application/vnd.ufdlufdufdfd
application/vnd.uiq.themeutz
application/vnd.umajinumj
application/vnd.unityunityweb
# audio/vnd.cisco.nse
# audio/vnd.cmles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audiouva uvva
audio/vnd.digital-windeol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.mlp
# audio/vnd.dolby.mps
# audio/vnd.dolby.pl2
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
audio/vnd.dradra
audio/vnd.dtsdts
audio/vnd.dts.hdtdshd
# audio/vnd.dvb.file
# audio/vnd.everad.plj
# audio/vnd.hns.audio
audio/vnd.lucent.voicelvp
audio/vnd.ms-playready.media.pyapya
# audio/vnd.nokia.mobile-xmf
# audio/vnd.nortel.vbk
audio/vnd.nuera.ecelp4800ecelp4800
audio/vnd.nuera.ecelp7470ecelp7470
audio/vnd.nuera.ecelp9600ecelp9600
# audio/vnd.octel.sbc
# audio/vnd.qcelp
# audio/vnd.rhetorex.32kadpcm
audio/vnd.riprip
# audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvsd
# audio/vorbis
# audio/vorbis-config
audio/webmweba
audio/x-aacaac
audio/x-aiffaiff aiff aifc
audio/x-caccaf
audio/x-flacflac
audio/x-matroskamka
audio/x-mpegurlm3u
audio/x-ms-waxwax
audio/x-ms-wmawma
audio/x-pn-realaudioram ra
audio/x-pn-realaudio-pluginrmp
# audio/x-tta
# video/vnd.iptvforum.1dparityfec-2005
# video/vnd.iptvforum.2dparityfec-1010
# video/vnd.iptvforum.2dparityfec-2005
# video/vnd.iptvforum.ttsavc
# video/vnd.iptvforum.ttsmpeg2
# video/vnd.motorola.video
# video/vnd.motorola.videop
video/vnd.mpegurlmxu m4u
video/vnd.ms-playready.media.pypyv
# video/vnd.nokia.interleaved-multimedia
# video/vnd.nokia.videovoip
# video/vnd.objectvideo
# video/vnd.radgametools.bink
# video/vnd.radgametools.smacker
# video/vndsealed.mpeg1
# video/vndsealed.mpeg4
# video/vndsealed.swf
# video/vndsealedmedia.softseal.mov
video/vnd.uvvu.mp4uvu uvvu
video/vnd.vivoviv
# video/vp8
video/webmwebm
video/x-f4vf4v
video/x-flifli
video/x-flvf1v
video/x-m4vm4v
video/x-matroskamkv mk3d mks
video/x-mngmng
video/x-ms-asfasf asx
video/x-ms-vobvob
video/x-ms-wmwm
video/x-ms-wmvwmv
video/x-ms-wmxwmx
video/x-ms-wxxwvx
video/x-msvideoavi
video/x-sgi-moviemovie
video/x-smvsmv
x-conference/x-cooltalkice

Found in path(s):
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
  jar/org/springframework/http/mime.types
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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/bind/annotation/PatchMapping.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/context/request/RequestContextHolder.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/context/support/ServletRequestLiveBeansView.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/context/request/WebRequestInterceptor.java

...
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Found in path(s):
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/annotation/InitBinder.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/client/ResourceAccessException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/support/SimpleSessionStatus.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/support/WebBindingInitializer.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/WebApplicationContext.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/web/context/annotation/ApplicationScope.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/web/context/request/SessionScope.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/annotation/RequestScope.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/server/WebHandler.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/server/session/WebSessionIdResolver.java
jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/bind/ServletRequestBindingException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/bind/ServletRequestBindingException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/context/ConfigurableWebEnvironment.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/bind/annotation/ValueConstants.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/http/client/AbstractClientHttpResponse.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1.jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java

1.2942 bind 9.11.8

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<!-- Generate ISC copyright comments from Doxygen 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="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text,'&lt;!--'))"/>
</xsl:template>

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 */

/*!
 * \file
 * \note
 * 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>
#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/rdatastruct.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_INET6ADDRSZ)
#define NS_INET6ADDRSZ 16
#endif

static lwres_context_t *lwctx = NULL;
static lwres_conf_t *lwconf;

dig_lookuplist_t lookup_list;
dig_serverlist_t server_list;
dig_searchlist_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

#ifdef WITH_IDNKIT
int idnoptions = 0;
#endif
#endif /* WITH_IDN_OUT_SUPPORT */

isc_socket_t *keep = NULL;
isc_sockaddr_t keepaddr;

/*
 * Exit Codes:
 *
 *\li 0   Everything went well, including things like NXDOMAIN
 *\li 1   Usage error
 *\li 7   Got too many RR's or Names
 *\li 8   Couldn't open batch file
 *\li 9   No reply from server
 *\li 10  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,
isc_result_t advanced_rsearch(dns_rdataset_t **rdataset,
    dns_name_t *name,
    dns_rdatatype_t type,
    dns_rdatatype_t covers,
    int section);
isc_result_t sigchase_verify_sig(dns_name_t *name,
    dns_rdataset_t *rdataset,
    dst_key_t *dnsseckey,
    dns_rdataset_t *sigrdataset);
isc_result_t sigchase_verify_ds(dns_name_t *name,
    dns_rdataset_t *keyrdataset,
    dns_rdataset_t *dsrdataset);
isc_result_t contains_trusted_key(dns_name_t *name,
    dns_rdataset_t *rdataset,
    dns_rdataset_t *sigrdataset);
isc_result_t prove_nx_domain(dns_message_t *msg,
    dns_name_t * name,
    dns_name_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);
#endif
#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
/*
* the current name is the parent name when we follow delegation
*/
dns_name_t chase_current_name;
/*
* the child name is used for delegation (NS DS responses in AUTHORITY section)
*/
dns_name_t chase_authority_name;
#endif
if DIG_SIGCHASE_BU

dns_name_t chase_signame;
#endif

bool chase_siglookedup = false;
bool chase_keylookedup = false;
bool chase_sigsigkeylookedup = false;
bool chase_dslookedup = false;
bool chase_sigsdslookedup = false;
#if DIG_SIGCHASE_TD
bool chase_nslookedup = false;
bool chase_lookedup = 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
 */
#endif
#define LOCK_LOOKUP {
  debug("lock_lookup %s:%d", __FILE__, __LINE__);
  check_result(isc_mutex_lock((&lookup_lock)), "isc_mutex_lock");
  debug("success");
}


```c
#define UNLOCK_LOOKUP \
  debug("unlock_lookup %s:%d", __FILE__, __LINE__);\ncheck_result(isc_mutex_unlock((&lookup_lock)),\n  "isc_mutex_unlock");
}

/* dynamic callbacks */

#ifdef DIG_SIGCHASE
isc_result_t (*dighost_printrdataset)(dns_name_t *owner_name, dns_rdataset_t *rdataset,\n  isc_buffer_t *target);
#endif

isc_result_t (*dighost_printmessage)(dig_query_t *query, dns_message_t *msg,\n  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) {
  fputs("    ", stdout);
  for (i = len - 15; i <= len; i++) {
    if (r.base[i] >= '!' && r.base[i] <= '}')
      putchar(r.base[i]);
    else
      putchar('.');
  }
  printf("\n");
}
if (len % 16 != 0) {
  for (i = len; (i % 16) != 0; i++)
    fputs("   ", stdout);
  fputs("    ", 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 = reverse_octets(in, p, end);
  if (result != ISC_R_SUCCESS)
    return (result);
  *p = dot;
  return (ISC_R_SUCCESS);
}
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. */
        dns_fixedname_t fname;
        dns_name_t *name;
        unsigned int options = 0;

        if (ip6_int)
            options |= DNS_BYADDRLOPT_IPV6INT;
        name = 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_BADDOTTEDQUAD);
        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
d debug(const char *format, ...) {
va_list args;
isc_time_t t;

if (debugging) {
fflush(stdout);
if (debugtiming) {
TIME_NOW(&t);
fprintf(stderr, "%u.%06u: ", isc_time_seconds(&t),
isc_time_nanoseconds(&t) / 1000);
}
va_start(args, format);
vfprintf(stderr, format, args);
va_end(args);
fprintf(stderr, "\n");
}

void
check_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 *
make_server(const char *servname, const char *userarg) {
    dig_server_t *srv;

    REQUIRE(servname != NULL);

dbg("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__);
    strlcpy(srv->servername, servname, MXNAME);
    strlcpy(srv->userarg, userarg, MXNAME);
    ISC_LINK_INIT(srv, link);
    return (srv);
}

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")];
      snprintf(buf, sizeof(buf), "%%%u", confdata->nameservers[i].zone);
      strlcat(tmp, buf, sizeof(tmp));
    }
    newsrv = make_server(tmp, tmp);
    ISC_LINK_INIT(newsrv, link);
    ISC_LIST_ENQUEUE(*dest, newsrv, link);
  }
}

void
flush_server_list(void) {
  dig_server_t *s, *ps;
  debug("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 sockaddrs[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, sockaddrs,
    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, &sockaddrs[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_IN6ADDRSZ;
        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;

dbg("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;

dbg("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;
#else DIG_SIGCHASE_TD
looknew->do_topdown = false;
looknew->trace_root_sigchase = false;
looknew->rdtype_sigchaseset = false;
looknew->rdtype_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->aaonly = false;
looknew->adflag = false;
looknew->cdflag = false;
looknew->print_unknown_format = false;
looknew->xflag = false;
looknew->ns_search_only = false;
looknew->origin = NULL;
looknew->tsigctx = NULL;
looknew->querysig = NULL;
looknew->retries = tries;
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;

dug("clone_lookup()");

INSIST(!free_now);

looknew = make_empty_lookup();
INSIST(looknew != NULL);
strlcpy(looknew->textname, lookold->textname, MXNAME);
#endif
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;
#endif
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_sigchaseset = lookold->rdclass_sigchaseset;
#endif
#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

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*/
dig_lookup_t *
requeue_lookup(dig_lookup_t *lookold, bool servers) {
    dig_lookup_t *looknew;

ddebug("requeue_lookup()");

    lookup_counter++;
    if (lookup_counter > LOOKUP_LIMIT)
        fatal("too many lookups");

    looknew = clone_lookup(lookold, servers);
    INSIST(looknew != NULL);
    debug("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'
    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.sa_family = AF_UNSPEC;
        prefix_length = 0;
        goto done;
    }

    REQUIRE(blah);
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;

#ifdef PK11_MD5_DISABLE
    if (strcasecmp(buf, "hmac-md5") == 0) {
        hmacname = DNS_TSIG_HMACMD5_NAME;
    } else if (strncasecmp(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 (strcasecmp(buf, "hmac-sha224") == 0) {
        hmacname = DNS_TSIG_HMACSHA224_NAME;
        digestbits = parse_bits(&buf[12], "digest-bits [0..224]", 224);
    } 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 (strcasecmp(buf, "hmac-sha256") == 0) {
        hmacname = DNS_TSIG_HMACSHA256_NAME;
    } 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") == 0) {
        hmacname = DNS_TSIG_HMACSHA384_NAME;
    } 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") == 0) {
hmacname = DNS_TSIG_HMACSHA512_NAME;
} else if (strcasecmp(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;

dbg("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;
}

if (result != ISC_R_SUCCESS) {
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
clear_searchlist(void) {
dig_searchlist_t *search;
while ((search = ISC_LIST_HEAD(search_list)) != NULL) {
ISC_LIST_UNLINK(search_list, search, link);
isc_mem_free(mctx, search);
}
}

static void
create_search_list(lwres_conf_t *confdata) {
int i;
dig_searchlist_t *search;

debug("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);
}
}

/*%
* Setup the system as a whole, reading key information and resolv.conf
* settings.
*/
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;
  debug("verbose is on");
}
if (ndots == -1) {
  ndots = lwconf->ndots;
  debug("ndots is %d.", ndots);
}
if (lwconf->attempts) {
  tries = lwconf->attempts + 1;
  if (tries < 2)
    tries = 2;
  debug("tries is %d.", tries);
}
if (lwconf->timeout) {
  timeout = lwconf->timeout;
debug("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);
}

#ifdef HAVE_SETLOCALE
/* Set locale */
(void) setlocale(LC_ALL, ":");
#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
dns_name_init(&chase_current_name, NULL);
dns_name_init(&chase_authority_name, NULL);
#endif
#if DIG_SIGCHASE_BU
dns_name_init(&chase_siname, NULL);
#endif
#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);
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;

dbg("add_question()");
    rdataset = NULL;
result = dns_message_gettemprdataset(message, &rdataset);
check_result(result, "dns_message_gettemprdataset()");
dns_rdataset_makequestion(rdataset, rdclass, rdtype);
ISC_LIST_APPEND(name->list, rdataset, link);
}

/*%*
* 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) {
    dbg("check_if_done()");
    dbg("list %s", ISC_LIST_EMPTY(lookup_list) ? "empty" : "full");
    if (ISC_LIST_EMPTY(lookup_list) && current_lookup == NULL &&
        sendcount == 0) {
        INSIST(sockcount == 0);
        INSIST(revcvcount == 0);
        dbg("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);

dbug("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) {
            dbug("query to %s still pending", q->servname);
            q = ISC_LIST_NEXT(q, link);
        }

        q = ISC_LIST_HEAD(lookup->connecting);
        while (q != NULL) {
            dbug("query to %s still connecting",
                  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;

dbug("destroy");
s = ISC_LIST_HEAD(lookup->my_server_list);
while (s != NULL) {
    dbug(" 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) {
dbg("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()\n");
    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");
        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 disabled\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); 
} 
novalidation:
#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();
}
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;
}
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_messageFirstname(msg, section);
    result == ISC_R_SUCCESS;
    result = dns_messageNextname(msg, section)) {
    name = NULL;
    dns_messageCurrentname(msg, section, &name);
    if (section == DNS_SECTION_AUTHORITY) {
        rdataset = NULL;
        result = dns_messageFindtype(name, dns_rdatatype_soa,
            0, &rdataset);
        if (result == ISC_R_SUCCESS)
            return (0);
    }
    rdataset = NULL;
    result = dns_messageFindtype(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);
}
debug("adding server %s", namestr);
um = getaddresses(lookup, namestr, &lresult);
if (lresult != ISC_R_SUCCESS) {
    printf("couldn't get address for '%s': %s\n", namestr, isc_result_totext(lresult));
    if (addresses_result == ISC_R_SUCCESS) {
        addresses_result = lresult;
        strlcpy(bad_namestr, namestr, sizeof(bad_namestr));
    }
}

numLookups += num;
dns_rdata_reset(&rdata);
}
}
if (numLookups == 0 && addresses_result != ISC_R_SUCCESS) {
fatal("couldn't get address for '%s': %s",
  bad_namestr, isc_result_totext(result));
}

if (lookup == NULL &&
  section == DNS_SECTION-answer &&
  (query->lookup->trace || query->lookup->ns_search_only))
return (followup_lookup(msg, query, DNS_SECTION-AUTHORITY));

/
 * Randomize the order the nameserver will be tried.
 */
if (numLookups > 1) {
uint32_t i, j;
dig_serverlist_t my_server_list;
dig_server_t *next;
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 (!usesearch)
        /*
        * 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)
            /*
            * Create and queue a new lookup using the next origin from the search
            * list, read in setup_system().
            *
            */
            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 (!usesearch)
                    /*
                    * 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;

ddebug("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->rдагабуф);
check_result(result, "isc_rdata_fromstruct");
result = dns_message_gettempdatalist(lookup->sendmsg, &rdatalist);
check_result(result, "dns_message_gettempdatalist");

result = dns_message_gettempdataset(lookup->sendmsg, &rdataset);
check_result(result, "dns_message_gettempdataset");

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);

d 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.
 */

#endif 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))
result = dns_name_concatenate(name,
lookup->oname,
lookup->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,

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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 aaflag */
if (lookup->aaonly) {
    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");

dbg("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;
/*
 * XXXMUKS: 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();
   }

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[addr1 - 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->servername = 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) {
extrabytes = 0;
dighost_printmessage(ISC_LIST_HEAD(lookup->q), lookup->sendmsg,
true);
if (lookup->stats)
printf(":: QUER Y 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;

dbg("send_done()");
sendcount--;
dbg("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) {
  dbg("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;

debug("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
force_timeout(dig_query_t *query) {
    isc_event_t *event;

dBUG("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;

    debug("send_tcp_connect(%p)", query);

    l = query->lookup;
    query->waiting_connect = true;
    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;

dBUG("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;

    debug("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'", 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++;
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");

/*
 * 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",}
*/
* 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 '%s'", buf);

            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);
d debug("recv 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);
recvcount++;
d debug("recvcount=%d", recvcount);
}
ISC_LIST_INIT(query->sendlist);
sendbuf = clone_buffer(&query->sendbuf);
ISC_LIST_ENQUEUE(query->sendlist, sendbuf, link);
d debug("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_sendto");
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);

  l = dig_lookup_t *l = NULL;
  query = dig_query_t *query = NULL;

  UNWEIGHTED(task);
  REQUIRE(event->ev_type == ISC_TIMEEVENT_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);
        }
    }
    UNLOCK_LOOKUP;
    return;
}

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;
}
UNLOCK_LOOKUP;
}

/*
 * Event handler for the TCP recv which gets the length header of TCP
 * packets. Start the next recv of length bytes.
 */
static void
tcp_length_done(isc_task_t *task, isc_event_t *event) {
  isc_socketevent_t *sevent;
  isc_buffer_t *b = NULL;
  isc_result_t result;
  dig_query_t *query = NULL;
  dig_lookup_t *l, *n;
  uint16_t length;

  REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
  INSIST(!free_now);

  UNUSED(task);

debug("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);
l = query->lookup;
isc_socket_detach(&query->sock);
sockcount--;
dump("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);
dump("recvving 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++;

dbbug("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);

dbbug("launch_next_query()");

if (!query->lookup->pending) {
dbbug("ignoring launch_next_query because !pending");
isc_socket_detach(&query->sock);
sockcount--;
dbbug("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_recv(query->sock, &query->lengthlist, 0,
    global_task, tcp_length_done, query);
check_result(result, "isc_socket_recv");
recvcount++;
debug("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
return;

/*
 * Event handler for TCP connect complete. Make sure the connection was
 * successful, then pass into launch_next_query to actually send the
 * question.
 */
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);
    debug("connect_done()");

    LOCK_LOOKUP;
    sevent = (isc_socketevent_t *)event;
    query = sevent->ev_arg;

    result = isc_socket_recv(query->sock, &query->lengthlist, 0,
        global_task, tcp_length_done, query);
    check_result(result, "isc_socket_recv");
    recvcount++;
    debug("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
    return;
}
INSIST(query->waiting_connect);

query->waiting_connect = false;

if (sevent->result == ISC_R_CANCELED) {
    debug("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--;
    debug("sockcount=%d", sockcount);
    query->waiting_connect = false;
    isc_event_free(&event);
l = query->lookup;
clear_query(query);
check_next_lookup(l);
UNLOCK_LOOKUP;
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\n", 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;
}
launch_next_query(query, true);
isc_event_free(&event);
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 += seventy->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);
    if (result != ISC_R_SUCCESS)
      continue;
do {
    query->rr_count++;
    dns_rdata_reset(&rdata);
    dns_rdataset_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;
      debug("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. */
debug("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;
    debug("this is the first serial %u", serial);
    if (ixfr && isc_serial_ge(ixfr_serial, serial)) {
        debug("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;
}

dependency("done with ixfr");
goto doexit;
}

dependency("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_putstr(&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);
        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;
}
}
}
}
}

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.
 */

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|
    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.
     * XXXMBA 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,\n"
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: ",
                    query->warn_id ? "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"),
        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"),
    }
    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++;
}

d debug("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\n");
    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
",
            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");
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\n", 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) {
dbug("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, ",
    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);
}
}
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];

ddebug("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)
    nl = 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
#ifndef DIG_SIGCHASE
if (!do_sigchase)
#endif
dighost_printmessage(query, msg, true);
}
#endif 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__);
            __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

#ifdef DIG_SIGCHASE
if (l->sigchase && ISC_LIST_EMPTY(lookup_list)) {
sigchase(msg_temp);
}
#endif

if (l->pending)
dbg("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) {
#endif 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;
    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_recvv(query->sock, &query->recvlist, 1,
    global_task, recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
isc_event_free(&event);
UNLOCK_LOOKUP;
return;
}

//misc
* 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) {
  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 sockaddr[DIG_MAX_ADDRESSES];
  isc_netaddr_t netaddr;
  int count, i;
  dig_server_t *srv;
  char tmp[ISC_NETADDR_FORMATSIZE];

  result = bind9_getaddresses(host, 0, sockaddr, 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, &sockaddr[i]);
    isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
    srv = make_server(tmp, host);
    ISC_LIST_APPEND(lookup->my_server_list, srv, link);
  }

  return (count);
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) {
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);
dbgd("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(revcnt == 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) {
  debug("detach from entropy");
  isc_entropy_detach(&entp);
}

UNLOCK_LOOKUP;
DESTROYLOCK(&lookup_lock);
#ifdef DIG_SIGCHASE
  debug("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);
    dns_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);
dns_message_destroy(&(chase_msg->msg));
ptr = chase_msg;
chase_msg = ISC_LIST_NEXT(chase_msg, link);
is_c_mem_free(mctx, ptr);
}
if (dns_name_dynamic(&chase_name))
free_name(&chase_name);
#if 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
#if DIG_SIGCHASE_BU
if (dns_name_dynamic(&chase_signame))
free_name(&chase_signame);
#endif
debug("Removing log context");
isc_log_destroy(&lctx);

db ug("Destroy memory");
if (memdebugging != 0)
is_c_mem_stats(mctx, stderr);
if (mctx != NULL)
is_c_mem_destroy(&mctx);
}
#endif

static isc_result_t
output_filter(isc_buffer_t *buffer, unsigned int used_org,
    bool absolute)
{
    char tmp1[MAXDLEN], tmp2[MAXDLEN];
siz e_t fromlen, tolen;
bool end_with_dot;
is_c_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
#endif
#endif

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 */

#ifndef 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);

    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_LIBIDN2 */
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;

#ifndef 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.
    */
    /*
    * 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.
    */
    /*
    * 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.
    */
    /*
    * 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.
    */
    /*
    * 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.
    */
    /*
    * 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.
    */
    /*
    * 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_8zlz() + 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));
}
```

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) {
    debug("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;

    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);

        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)) {


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, "signdata tostruct siginfo");

if ((siginfo.covered == covers) ||
    (covers == dns_rdatatype_any)) {
    dns_rdata_reset(&sigrdata);
    dns_rdata_freestruct(&siginfo);
    return (rdataset);
}
    dns_rdata_reset(&sigrdata);
    dns_rdata_freestruct(&siginfo);
    } 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 =
        }
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);
}

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);
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->qrdtype = 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\n", 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->qrtype = lookup->qrdtype_sigchase;

    return result;
}
#endif
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__
    #ifdef __FOLLOW_GLUE__
    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);
        }
    }
    #endif
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);
}
}

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';
strlcpy(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
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 nlabelsp;

    name_reln = dns_name_fullcompare(name, zone_name, &orderp, &nlabelsp);
    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,
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 sigrdata = DNS_RDATA_INIT;

    dns_rdataset_current(&mysigrdataset, &sigrdata);

    result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
    check_result(result, "sigrdata tostruct siginfo");

    if (dns_name_compare(&siginfo.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)
{
    bool t = true;
    chase_nsrdataset = NULL;
    result = advanced_rrsearch(&chase_nsrdataset, name, dns_rdatatype_ns,
                                  dns_rdatatype_any, &t);

    dns_name_countlabels(zone_name) +1,
    child_name);
    return (ISC_R_SUCCESS);
}
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_buffer_t *b = NULL;
    isc_result_t result;
    isc_region_t r;

    result = isc_buffer_allocate(mctx, &b, 9000);
    check_result(result, "isc_buffer_allocate");

dighost_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) {
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 ");
            
            }

        }

    }

    return result;
}
"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,

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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_t sigdata = DNS_RDATA_INIT;
    result = dns_rdata_tostruct(&sigdata, &siginfo, NULL);
    check_result(result, "sigdata tostruct siginfo");
    if (siginfo.keyid == dst_key_id(dnsseckey)) {
        result = dns_rdataset_first(&myrdataset);
    }
}

/*
 * 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);

return (result);
}

isc_result_t sigchase_verify_ds(dns_name_t *name, dns_rdataset_t *keyrdataset,
    dns_rdataset_t *dsrdataset)
{

dns_rdata_ds_t dsinfo;

dns_rdataset_t mydsrdataset;

dns_rdataset_t mykeyrdataset;

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;

result
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);

    result = dns_dnssec_keyfromrdata(name, &keyrdata,
        mctx, &dnsseckey);
    check_result(result, "dns_dnssec_keyfromrdata");

    /*
     * 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);

        }
    }

    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");

    /*
     * 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)

    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);

    result = dns_dnssec_keyfromrdata(name, &keyrdata,
        mctx, &dnsseckey);
    check_result(result, "dns_dnssec_keyfromrdata");

    /*
     * 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 rsset is a rsset on 'name' with type 'type'
* (and if the type is a rsig the signature cover 'covers').
* the lookedup is to known if you have already done the query on the net.
* ISC_R_SUCCESS: if we found the rsset
* ISC_R_NOTFOUND: we do not found the rsset in cache
* and we do a query on the net
* ISC_R_FAILURE: rsset 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_scannam...
lookedup, name)) == NULL) {
    if (tmplookedup)
        return (ISC_R_FAILURE);
    return (ISC_R_NOTFOUND);
}

*lookedup = false;
return (ISC_R_SUCCESS);
}

#ifdef 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;
        }
        have_answer = true;
    } else {
        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");
            }
        }
    }
}
#endif
if (have_answer) {
    chase_rdataset
    = chase_scannamename_section(msg, &chase_name,
        current_lookup
        ->rdtype_sigchase,
        dns_rdatatype_any,
        DNS_SECTION Answer);
    if (chase_rdataset != NULL) have_response = true;
}

result = advanced_rsearch(&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:\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");
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_sigrdataset = 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_sighchase,
                                   &t);
        if (result == ISC_R_FAILURE) {
            printf("\n;; RRset is missing to continue" " validation SHOULD NOT APPEND:" " FAILED\n\n");
            goto cleanandgo;
        }
    } else {
        result = advanced_rrsearch(&chase_sigrdataset,
                                   &chase_authority_name,
                                   dns_rdatatype_rsaig,
                                   dns_rdatatype_any,
                                   &t);
        if (result == ISC_R_FAILURE) {
            printf("\n;; RRSIG is missing to continue" " validation SHOULD NOT APPEND:" " FAILED\n\n");
            goto cleanandgo;
        }
    }
    result = grandfather_pb_test(&chase_current_name,
                                 chase_sigrdataset);
    if (result != ISC_R_SUCCESS) {
        dns_name_t tmp_name;
        printf("\n;; 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)
go_to_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)
go_to_finalstep;
else
chase_sigrdataset = NULL;
}

if (have_delegation_ns) {
chase_nsrdataset = NULL;
result = advanced_rrsearch(&chase_nsrdataset,
  &chase_authority_name,
  dns_rdatatype_ns,
  dns_rdatatype_any,
  &chase_nslookedup);
if (result == ISC_R_FAILURE) {
printf("\n;;NSset is missing to continue validation:
  " FAILED\n\n");
go_to_cleanandgo;
}
if (result == ISC_R_NOTFOUND) {
return;
}
INSIST(chase_nsrdataset != NULL);

result = advanced_rrsearch(&chase_dsrdataset,
  &chase_authority_name,
  dns_rdatatype_ds,
  dns_rdatatype_any,
  &chase_dslookedup);
if (result == ISC_R_FAILURE) {
printf("\n;; DSset is missing to continue validation:
  " FAILED\n\n");
go_to_cleanandgo;
}
if (result == ISC_R_NOTFOUND)
return;

INSIST(chase_dsrdataset != NULL);
printf("\n; DSset: \n"n);  
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("\n; DSset is missing to continue validation:
" FAILED\n\n\n);  
goto cleanandgo;
}
printf("\n; RRSIGset of DSset\n\n"n);  
print_rdataset(&chase_authority_name, chase_sigdsrdataset);
INSIST(chase_sigdsrdataset != NULL);

result = sigchase_verify_sig(&chase_authority_name,
 chase_dsrdataset,
 chase_keyrdataset,
 chase_sigdsrdataset);
if (result != ISC_R_SUCCESS) {  
printf("\n; Impossible to verify the DSset:
" FAILED\n\n\n);  
goto cleanandgo;
}
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;

prepare_lookup(&chase_authority_name);

have_response = false;
have_delegation_ns = false;
delegation_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:"\n           " 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:"\n           " 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,
&td);
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("RRset:\n" );
    print_rdataset(&chase_name, chase_rdataset);
    printf("DNSKEYset:\n" );
    print_rdataset(&chase_name, chase_keyrdataset);
    printf("RRSIG 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
getneededr(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));

if (chase_namendata == NULL) return (ISC_R_ADDRNOTAVAIL);
} else {
dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
}

/* What do we chase? */
if (chase_rdataset == NULL) {
result = advanced_rsearch(&chase_rdataset, name,
    dns_rdatatye_ay,
    dns_rdatatye_ay, &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_rsreach(&chase_sigrdataset, name,
    dns_rdatatye_ay,
    chase_rdataset->type,
    &chase_sigtlookedup);
if (result == ISC_R_FAILURE) {
printf("\n; RRSIG is missing for continue validation:" 
    " FAILED\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_sigdataset, &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(";; DNSKEY is missing to continue validation:"
            " FAILED\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(";; 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(";; RRSIG for DNSKEY is missing to continue"
            " validation : FAILED\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);
    }
    if (result == ISC_R_NOTFOUND) {
        free_name(&chase_name);
    }
return (ISC_R_NOTFOUND);
}
printf("\n; RRSIG of the DNSKEYset that signs the "
       "RRset to chase:\n");
print_rdataset(&chase_signe, chase_sigkeyrdataset);
}
INSIST(chase_sigkeyrdataset != NULL);

if (chase_dsrdataset == NULL) {
  result = advanced_rrsearch(&chase_dsrdataset, &chase_signe,
                            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_signe, stdout);
    printf("\n");
  } else {
    printf("\n; DSset of the DNSKEYset\n");
    print_rdataset(&chase_signe, 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_sigsdsdataset,
                              &chase_signe,
                              dns_rdatatype_rrsig,
                              dns_rdatatype_ds, &t);
  if (result == ISC_R_FAILURE) {
    printf("\n; WARNING: NO RRSIG DS: RRSIG DS" 
       " should come with DS\n");
  } else {
    printf("\n; RRSIG of the DSset of the DNSKEYset\n");
    print_rdataset(&chase_signe, chase_sigsdsdataset);
  }
}
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();
        }
    }
}
if (result != ISC_R_SUCCESS) {
    printf("\n 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_sigrdataset = NULL;
chase_dsrdataset = NULL;
chase_sigsrdataset = NULL;
chase_siglookedup = false;
chase_keylookedup = false;
chase_dslookedup = false;
chase_sigsdslookedup = false;
sigchase(msg);
clean_trustedkey();
return;
}

printf("\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_sigrname);
    printf(";;;; No DNSKEY is valid to check the RRSIG"
           " of the RRset: FAILED\n";
    clean_trustedkey();
    return;
}
printf(";;;; OK We found DNSKEY (or more) to validate the RRset\n");

result = contains_trusted_key(&chase_sigrname, chase_keyrdataset,
                             chase_sigrdataset);
if (result == ISC_R_SUCCESS) {
free_name(&chase_name);
free_name(&chase_signame);
printf(";; Ok this DNSKEY is a Trusted Key,
" " DNSSEC validation is ok: SUCCESS"
);
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"
);
clean_trustedkey();
return;
}

result = sigchase_verify_ds(&chase_signame, chase_keyrdataset,
chase_dsrdataset);
if (result != ISC_R_SUCCESS) {
free_name(&chase_signame);
free_name(&chase_name);
printf(";; ERROR no DS validates a DNSKEY in the"
" DNSKEY RRset: FAILED"
);
clean_trustedkey();
return;
} else
printf(";; OK this DNSKEY (validated by the DS) validates"
" the RRset of the DNSKEYs, thus the DNSKEY validates"
" the RRset"
);
INSIST(chase.sigdsrdataset != NULL);

dup_name(&chase_signame, &chase_name);
free_name(&chase_signame);
chase_rdataset = chase_dsrdataset;
chase_sigrdataset = chase_sigdsrdataset;
chase_keyrdataset = NULL;
chase_sigrdataset = NULL;
chase_dsrdataset = NULL;
chase_sigdsrdataset = NULL;
chase_siglookedup = chase_keylookedup = false;
chase_dslookedup = chase_sigslookedup = false;

printf(";; Now, we want to validate the DS :  recursive call\n");
sigchase(msg);
return;
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
* and -2 if problem
*/
int
inf_name(dns_name_t *name1, dns_name_t *name2) {
    dns_label_t label1;
    dns_label_t label2;
    unsigned int nblabel1;
    unsigned int nblabel2;
    int min_lum_label;
    int i;
    int ret = -2;
    nblabel1 = dns_name_countlabels(name1);
    nblabel2 = dns_name_countlabels(name2);

    if (nblabel1 >= nblabel2)
        min_lum_label = nblabel2;
    else
        min_lum_label = nblabel1;

    for (i=1 ; i < min_lum_label; i++) {
        dns_name_getlabel(name1, nblabel1 -1 - i, &label1);
        dns_name_getlabel(name2, nblabel2 -1 - i, &label2);
        if ((ret = isc_region_compare(&label1, &label2)) != 0) {
if (ret < 0)
    return (-1);
else if (ret > 0)
    return (1);
}
}
if (nblabel1 == nblabel2)
return (0);

if (nblabel1 < nblabel2)
return (-1);
else
return (1);

/**
 *
 */
isc_result_t
prove_nx_domain(dns_message_t *msg,
dns_name_t *name,
dns_name_t *rdata_name,
dns_rdataset_t **rdataset,
dns_rdataset_t **signdataset)
{
    isc_result_t ret = ISC_R_FAILURE;
    isc_result_t result = ISC_R_NOTFOUND;
    dns_rdataset_t *nsecset = NULL;
    dns_rdataset_t *signset = NULL;
    dns_rdata_t nsec = DNS_RDATA_INIT;
    dns_name_t *nsecname;
    dns_rdata_nsec_t nsecestruct;

    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)
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_scanname_section(msg, name,
      dns_rdatatype_rrsig,
      dns_rdatatype_nsec,
      DNS_SECTION_AUTHORITY);
    if (signsecset == NULL) {
      printf("There isn't RRSIG NSEC for the zone \n");
      return (ISC_R_FAILURE);
    }
    dup_name(name, rdata_name);
    *rdataset = nsecset;
    *sigrdataset = signsecset;

    return (ret);
}
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)
{
    isc_result_t ret;
    dns_rdataset_t *nsecset = NULL;

    printf("We want to prove the non-existence of a type of rdata \%d\n"
           "or of the zone: \"", type);

    if ((ret = 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);
    }

    nsecset = chase_scanname_section(msg, name, dns_rdatatype_nsec,
                                        dns_rdatatype_any,
                                        DNS_SECTION_AUTHORITY);
    if (nsecset != NULL) {
        printf("We have a NSEC for this zone: \"OK\n\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);
        }
    } else {
        /* Never get here */
    }

    #endif

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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/cfg/defs/LuhnCheckDef.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForCollection.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForZonedDateTime.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/constraints/UniqueElements.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/cfg/defs/CreditCardNumberDef.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/messageinterpolation/ParameterTermResolver.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/FutureValidatorForOffsetDateTime.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/Mod10CheckValidator.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/PositiveValidatorForLong.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/PositiveValidatorForChar.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/aggregated/MetaDataBuilder.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/cfg/defs/FutureDef.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/SignValidatorForLong.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/SignValidatorForChar.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/SignValidator.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/engine/ConstraintViolationImpl.java
*/opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/ServiceLoaderBasedConstraintMappingContributor.java
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*/opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/path/PropertyNode.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-1.1.xsd
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-1.1.xsd
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* /
*/
/*
* <p>
* 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.
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

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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.
 */

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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/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
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jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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1.2973 libgcrypt 1.8.4 5
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LIBGCRYPT Brad Hards 2006-02-09
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(Added CFB mode. Changed cipher/cipher.c, test/basic.c; doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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1.2974 servlet-api 4.0.3

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src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
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#
src/gzip/adler32.c
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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.

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dh_python2, pycompile, pyclean and debpython module:

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 */
/*
* Set the \{\texttt{TCP\_MD5SIG}\} option on the socket. See \{\texttt{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 \{\texttt{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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 * 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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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1-45-final-sources-jar/io/netty/channel/epoll/netty_epoll_native.c

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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/netty_epoll_linuxsocket.c
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-
  jar/netty_epoll_linuxsocket.h

1.2999 opensaml-profile-api 3.3.0

1.3000 qdox 1.12

1.3001 jquery-dom-line 0.1.3

1.3002 neo4j-cypher-frontend 3.1.9
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[1]: http://eligrey.com

1.3006 vdom-virtualize 2.0.0
1.3006.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*!
 * vdom-virtualize
 * Copyright 2014 by Marcel Klehr <mklehr@gmx.net>
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774556_1590612060.18/0/vdom-virtualize-2-0-0-1-tgz/package/index.js

### 1.3007 dnsmasq 2.79

#### 1.3007.1 Available under license:

```bash
# dnsmasq is Copyright (c) 2000-2016 Simon Kelley
#
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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`
ct_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --cflags libnetfilter_contrack`
cf_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 -isn -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 conntrack.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 rffilter.o edns0.o arp.o crypto.o

hdrs = dnsmasq.h config.h dhcp-protocol.h dhcp6-protocol.h
      dns-protocol.h radv-protocol.h ip6addr.h

all : $(BUILDDIR)

@cd $(BUILDDIR) && $(MAKE) 

tope="$(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)" 

-f $(top)/Makefile dnsmasq

mostly_clean :

rm -f $(BUILDDIR)*.mo $(BUILDDIR)*.pot

rm -f $(BUILDDIR)/.copts_* $(BUILDDIR)/*.o $(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) 

tope=""$(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) $(nettles_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.m0; \n  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; \n  done

# Canonicalise .po file.
%.po :
  @cd $(BUILDDIR) && $(MAKE) -f $(top)/Makefile dnsmasq.pot
  mv $(PO)/$*.po $(PO)/$*.po.orig && $(MSGMERGE) --no-wrap $(PO)/$*.po.orig $(BUILDDIR)/dnsmasq.pot >$(PO)/$*.po;

$(BUILDDIR):
  mkdir -p $(BUILDDIR)

# rules below are helpers for size tracking
baseline : mostly_clean all
  @cd $(BUILDDIR) && \n    mv dnsmasq dnsmasq_baseline

bloatcheck : $(BUILDDIR)/dnsmasq_baseline mostly_clean all
  @cd $(BUILDDIR) && \n    $(top)/bld/bloat-o-meter dnsmasq_baseline dnsmasq;
    size dnsmasq_baseline 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)
  .c.o:
$(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 -

 FactoryBot : 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 no IP address and are for names like mymachine.mydomain.com.mydomain.com.
What are these?

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 jlsdajkdallld.com

If you get "jlsdajkdallld.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 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 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:

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 the 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>123</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 http://lists.thekelles.org.uk/pipermail/dnsmasq-discuss/2005q3/000431.html

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 http://lists.thekelles.org.uk/pipermail/dnsmasq-discuss/2007q4/001764.html

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;

(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;
    }
    #ifdef 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;
arps->hwlen = maclen;
arps->family = family;
memcpy(arp->hwaddr, mac, maclen);
if (family == AF_INET)
arps->addr.addr.addr4.s_addr = ((struct in_addr *)addrp)->s_addr;
#else
    memcpy(&arp->addr.addr.addr6, addrp, IN6ADDRSZ);
#endif
}

return 1;

int find_mac(union sockaddr *addr, unsigned char *mac, int lazy, time_t now)
{
    struct arp_record *arp, *tmp, **up;
    int updated = 0;

again:

    /* If in lazy mode, we cache absence of ARP entries. */
    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;
#endif
}
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;
            freelist = freelist = arp;
            return 1;
    }

    for (arp = arps; arp; arp = arp->next)
    if (arp->status == ARP.NEW)
    {
#ifdef 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;

1.3008 eudev 3.2.5
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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otp
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---

layout: "api"
page_title: "'/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |

The `'/sys/license` endpoint is used to view and update the license used in Vault.

---

# `'/sys/license`

-> **Enterprise Only** These endpoints require Vault Enterprise.

The `'/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.
<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>GET</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Sample Request
```
$ curl \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license
```

### Sample Response
```
```json
{
   "data": {
      "expiration_time": "2017-11-14T16:34:36.546753-05:00",
      "features": [
         "UI",
         "HSM",
         "Performance Replication",
         "DR Replication"
      ],
      "license_id": "temporary",
      "start_time": "2017-11-14T16:04:36.546753-05:00"
   },
   "warnings": [
      "time left on license is 29m33s"
   ]
}
```

## Install License
This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th align="left">Method</th>
<th align="left">Path</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left"><code>PUT</code></td>
<td align="left"><code>/sys/license</code></td>
</tr>
</tbody>
</table>

### Parameters
- `text` *(string: <required>)* The text of the license.

*DR Secondary Specific Parameters*
- `dr_operation_token` *(string: <required>)* - DR operation token used to authorize this request.

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```

### Sample Request

```bash
$ curl \
  --header "X-Vault-Token: ..." \ 
  --request PUT \ 
  --data @payload.json \ 
  http://127.0.0.1:8200/v1/sys/license
```

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BSON library for Go

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mgo - MongoDB driver for Go

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package github

import (  "context"  "fmt" )

// LicensesService handles communication with the license related  // methods of the GitHub API.  //  // GitHub API docs: https://developer.github.com/v3/licenses/  type LicensesService service

// RepositoryLicense represents the license for a repository.  type RepositoryLicense struct {  Name *string `json:"name,omitempty"`  Path *string `json:"path,omitempty"`

  SHA *string `json:"sha,omitempty"`
  Size *int `json:"size,omitempty"`
  URL *string `json:"url,omitempty"`
  HTMLURL *string `json:"html_url,omitempty"`
  GitURL *string `json:"git_url,omitempty"`
  DownloadURL *string `json:"download_url,omitempty"`
  Type *string `json:"type,omitempty"`
  Content *string `json:"content,omitempty"`
  Encoding *string `json:"encoding,omitempty"`
  License *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
  return Stringify(l)
}

// License represents an open source license.  type License struct {
  Key *string `json:"key,omitempty"`
  Name *string `json:"name,omitempty"`
  URL *string `json:"url,omitempty"`

  SPDXID *string `json:"spdx_id,omitempty"`
  HTMLURL *string `json:"html_url,omitempty"`
  Featured *bool `json:"featured,omitempty"`
  Description *string `json:"description,omitempty"`
  Implementation *string `json:"implementation,omitempty"`
  Permissions *[]string `json:"permissions,omitempty"`
  Conditions *[]string `json:"conditions,omitempty"`}
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    licenses := []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, nil
}

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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
    return false
}

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1.3014 python-defaults 3.5.1-3
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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

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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------------------------------------------------------------
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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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2.6.1  2.6  2008  PSF   yes
2.6.2  2.6.1  2009  PSF   yes
2.6.3  2.6.2  2009  PSF   yes
2.6.4  2.6.3  2009  PSF   yes
3.0  2.6  2008  PSF   yes
3.0.1  3.0  2009  PSF   yes
3.1  3.0.1  2009  PSF   yes
3.1.1  3.1  2009  PSF   yes

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Initialize empty image
f1c9645db4c14efdc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266e2df055067c18f2e9 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
ada64ace122978d00d11c0e5ee45d26 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
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df151a88a045db23418dd73f6e bsd.img
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   2048    1M  4.2BSD 0 0 0
b  4096 20479  16384    8M unused 0 0 0
c  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
2  Version 6 7  4.2BSD b  HPFS f  HFS
3  Version 7 8  MS-DOS c  ISO-9660 10  AdvFS
4  System V

Command (m for help):
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1.3022 nmap 7.80

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On all platforms, Nmap is normally linked with:

- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
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- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  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/
o 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/

o 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/

o LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/


On Windows only, Nmap uses:

o 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/winpcap.
http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/bsd-simplified.

Zenmap and Ndiff require:

o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:

o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/lgpl-2.
http://www.gtk.org/

o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/lgpl-2.1 and licenses/mpl-1.1.
http://www.cairographics.org/

o libgailutil: Accessibility support for GTK+.

o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

o zlib and bzip2: compression libraries.

o Expat: XML parser library.
http://expat.sourceforge.net/

o fontconfig: font configuration library.
http://www.fontconfig.org/
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The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
   http://www.x.org/ http://www.macports.org/

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**1.3029 neo4j-cypher-planner-spi 3.5.4**

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1.3031 commons-compress 1.4.1

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1.3035 gophercloud 0.1.0
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package RESOURCE

    import (    "github.com/gophercloud/gophercloud"
            "github.com/gophercloud/gophercloud/pagination"
    )
// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            ...
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================= 

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](https://github.com/gophercloud/gophercloud/contributing) guide again as a refresh. Notably the [Getting Started](https://github.com/gophercloud/gophercloud/contributing#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a very rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:
* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](https://github.com/gophercloud/gophercloud/docs/contributor-tutorial/template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you’re testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.
### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.
### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

**Step 6: Code Review**

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.
During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

-----------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

import (  "fmt"  "net/http"  "testing"

"github.com/gophercloud/gophercloud/openstack/service/vN/resources" th "github.com/gophercloud/gophercloud/testhelper" "github.com/gophercloud/gophercloud/testhelper/client" )

// ListResult provides a single page of RESOURCE results.
const ListResult = `{}
` // GetResult provides a Get result.
const GetResult = `{}
` // CreateRequest provides the input to a Create request.
const CreateRequest = `{}
` // UpdateRequest provides the input to as Update request.
const UpdateRequest = `{}
` // UpdateResult provides an update result.
const UpdateResult = `{}
` // FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, UpdateRequest)

    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, UpdateResult)
})
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}
// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
    return true, nil
})
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}
func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
defer th.TearardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
    Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
========================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
==========================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?
Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

`/*`

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

`*/`

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

--------------

When reporting a bug, please try to provide as much information as you can.
The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for issues, but it's usually a good idea to provide them, anyway. These links are required for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project
These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

--------------------

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID   string `json:"id"`
    Name string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared bool `json:"shared"`
}
```

to look like

```go
type Network struct {
    ID   string `json:"id"`
    Name string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
}`
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

```python
https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191
```

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.3036 apache-log4j 2.13.0

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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lib/hcrypto/test_dh.c

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The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/common-annotations-api
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1.3041 esapi 2.2.0.0

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/filters/RequestRateThrottleFilter.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessControlException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/StringUtilities.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/JavaScriptCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/filters/SecurityWrapper.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Errors/AccessControlException.java
```
jar/org/owasp/esapi/errors/AuthenticationException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codescs/VBScriptCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/ValidationUploadException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/AuthenticationLoginException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codescs/MySQLCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/User.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codescs/Codec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/crypto/DefaultEncryptedProperties.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codescs/MySQLException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/tags/DefaultEncoder.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/validation/BaseValidationRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/errors/IntegerException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/IntrusionDetector.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codescs/WindowsCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/validation/IntegerValidationRule.java

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultSecurityConfiguration.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Validator.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/OracleCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/crypto/ReferenceEncryptedProperties.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogger.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogBridge.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogFactory.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogLevelHandlers.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogLevelHandler.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/cleaning/CodecLogScrubber.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLevelHandler.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/cleaning/LogScrubber.java

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* @author kevin.w.wall@gmail.com
* @created 2007
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the { @code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * &lt;p&gt;
 * &lt;b&gt;CAUTION:&lt;/b&gt; If this algorithm for computing derived keys from the
 * key derivation key is &lt;i&gt;ever&lt;/i&gt; changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * &lt;p&gt;
 * &lt;b&gt;NOTE:&lt;/b&gt; This method is generally not intended to be called separately.
 * It is used by ESAPI's reference crypto implementation class { @code JavaEncryptor}
 * and might be useful for someone implementing their own replacement class, but
 * generally it is not something that is useful to application client code.
 * 
 * @param keyDerivationKey  A key used as an input to a key derivation function
 */
to derive other keys. This is the key that generally
is created using some key generation mechanism such as
[@link CryptoHelper#generateSecretKey(String, int)]. The
"input" key from which the other keys are derived.

The derived key will have the same algorithm type
as this key. This KDK cannot be null.

* @param keySize The cipher's key size (in bits) for the [@code keyDerivationKey].
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.

* @param purpose The purpose for the derived key. For the ESAPI reference implementation,
* {@code JavaEncryptor}, this <i>must</i> be either the string "encryption" or
* "authenticity", where "encryption" is used for creating a derived key to use
* for confidentiality, and "authenticity" is used for creating a derived key to
* use with a MAC to ensure message authenticity. However, since parameter serves
* the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
* be set to anything other than [@code null] or an empty string when called outside
* of [@code JavaEncryptor].

* @return The derived [@code SecretKey] to be used according
* to the specified purpose.

* @throws NoSuchAlgorithmException The [@code keyDerivationKey] has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".

* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original [@code UnsupportedEncodingException]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)

* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
*/

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An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by either specially logging the event, logging out the current user, or invalidating the current user's account.

Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from anywhere and will not require a lot of special exception handling.

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* to verify the same on decryption.
  * </p><p>
  * The list is taken from the comma-separated list of cipher modes specified
  * by the ESAPI property
  * @{code Encryptor.cipher_modes.combined_modes}.
  *
  * @return The parsed list of comma-separated cipher modes if the property
  * was specified in @{code ESAPI.properties}; otherwise the empty list is
  * returned.
  */

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 * @author Arshan Dabirsiahi <a href="http://www.aspectsecurity.com">Aspect Security</a>
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 *
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2009
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/PreparedString.java
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
* { @inheritDoc }
*
* The reference implementation sets the work directory, escapes the parameters as per the Codec in use,
* and then executes the command without using concatenation. The exact, absolute, canonical path of each
* executable must be listed as an approved executable in the ESAPI properties. The executable must also
* exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if
* you are going to invoke this interface with confidential information.
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultExecutor.java
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/**
* This methods adds a provider to the { @code SecurityManager}
* either by some generic name or by the class name.
* </p><p>
* The following generic JCE provider names are built-in:
* <ul>
* <li>SunJCE</li>
* <li>IBMJCE [for WebSphere]</li>
* <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
* <li>BC [i.e., Bouncy Castle]</li>
*/
* <li>IAIK</li>
* <li>CryptixCrypto (or Cryptix)</li>
* <li>ABA</li>
</ul>

* Note that neither Cryptix or ABA are actively maintained so
  * it is recommended that you do not start using them for ESAPI
  * unless your application already has a dependency on them. Furthermore,
  * the Cryptix JCE jars likely will not work as the Cryptix code signing
  * certificate has expired as of August 28, 2009. (This likely is true
  * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
  * provider is no longer offered as free, open source. It is not a
  * commercial product. See [@link "http://jce.iaik.tugraz.at/"] for
  * details. While some older versions were offered free, it is not clear
  * whether the accompanying license still allows you to use it, and if
  * it does, whether or not the code signing certificate used to sign
  * their JCE jar(s) has expired are not. Therefore, if you are looking
  * for a FOSS alternative to SunJCE, Bouncy Castle
  * ([@link "http://www.bouncycastle.org/"] is probably your best bet. The
  * BC provider does support many the "combined cipher modes" that provide
  * both confidentiality and authenticity. (See the [@code ESAPI.properties]
  * property [@code Encryptor.cipher_modes.combined_modes] for details.)

* For those working in the U.S. federal government, it should be noted
  * that &lt;i&gt;none&lt;/i&gt; of the providers listed here are considered validated
  * by NIST's Cryptographic Module Validation Program and are therefore
  * &lt;b&gt;not&lt;/b&gt; considered FIPS 140-2 compliant. There are a few approved
  * JCE compatible Java libraries that are on NIST's CMVP list, but this
  * list changes constantly so they are not listed here. For further details
  * on NIST's CMVP, see
  * [@link "http://csrc.nist.gov/groups/STM/cmvp/index.html"].

* Finally, if you wish to use some other JCE provider not recognized above,
  * you must specify the provider's fully-qualified class name (which in
  * turn must have a public, no argument constructor).

* The application must be given the [@code SecurityPermission] with a
  * value of [@code insertProvider.&lt;provider_name&gt;] (where
  * &lt;provider_name&gt; is the name of the algorithm provider if
  * a security manager is installed.

* @param algProvider Name of the JCE algorithm provider. If the name
  * contains a ".", this is interpreted as the name
  * of a [@code java.security.Provider] class name.

* @param pos The preference position (starting at 1) that the
  * caller would like for this provider. If you wish
  * for it to be installed as the &lt;i&gt;last&lt;/i&gt; provider
  * (as of the time of this call), set [@code pos] to -1.
* @return The actual preference position at which the provider was added, or -1 if the provider was not added because it is already installed.
* @exception NoSuchProviderException - thrown if the provider class could not be loaded or added to the {@code SecurityManager} or any other reason for failure.
*
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* *
* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java
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* @created 2007
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Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Encoder.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/EncryptedProperties.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessController.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Logger.java
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* 
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
* @created 2007
// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

Found in path(s):
  * /opt/cola/permits/1135894973_1613626862.75/0/esapi-2.2.0-0-sources-3.jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java
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 * @author Chris Schmidt (chris.schmidt@owasp.org)
 * @created 2010
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  * /opt/cola/permits/1135894973_1613626862.75/0/esapi-2.2.0-0-sources-3.jar/org/owasp/esapi/crypto/CryptoDiscoverer.java
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@author Pawan Singh (pawan.singh@owasp.org) <a href="www.owasp.org">OWASP</a>
@created 2009

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/util/DefaultMessageUtil.java

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@created 2009

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/waf/actions/Action.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/waf/rules/MustMatchRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/waf/actions/DefaultAction.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/waf/rules/EnforceHTTPSRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/waf/internal/InterceptingPrintWriter.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/waf/internal/InterceptingServletOutputStream.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/waf/rules/HTTPRequestRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/waf/rules/HTTPMethodRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3.jar/org/owasp/esapi/waf/ConfigurationException.java

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/configuration/AppGuardianConfiguration.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/internal/Parameter.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/AddHTTPOnlyFlagRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/PathExtensionRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/RestrictUserAgentRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/Rule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/AddHeaderRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/actions/BlockAction.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/actions/RedirectAction.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/internal/InterceptingHttpServletRequest.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/AddSecureFlagRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/AuthenticatedRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/SimpleVirtualPatchRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/internal/InterceptingHTTPServletResponse.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/configuration/ConfigurationParser.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/ReplaceContentRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/RuleUtil.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/actions/DoNothingAction.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/DetectOutboundContentRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/RestrictContentTypeRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/ESAPIWebApplicationFirewallFilter.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/BeanShellRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/IPRule.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
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 * @created February 6, 2009
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 * Security</a>
 * @created 2007
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  jar/org/owasp/esapi/filters/SecurityWrapperRequest.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/filters/SecurityWrapperResponse.java

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 * @created 2007
 */

/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 * @param executable
 * the command to execute
 * @param params
 * the parameters of the command being executed
 */
Open Source Used In MSX SD-WAN Service Pack 4.0.0

/*
@param workdir
the working directory
@param codec
the codec to use to encode for the particular OS in use
@param logParams
use false if any parameters contains sensitive or confidential information

@return the output of the command being run

@throws ExecutorException
the service exception
*/

Found in path(s):
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/**
 * Encodes and decodes to and from Base64 notation.
 */

<p>Encodes and decodes to and from Base64 notation.</p>

<p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a></p>

<p>Original change Log:</p>

<li>v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the<br>Base64.InputStream class to encode and decode on the fly which uses<br>less memory than encoding/decoding an entire file into memory before writing.</li>

<li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug<br>when using very small files (<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 Section 4 of RFC3548.
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
URL and file name friendly format that preserves lexical ordering as described
* </ol>
* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.
* </li>
* 
* 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 (that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a
byte[] using decode(String s, boolean gzipCompressed). 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).
* 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.
* 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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plenty of well-wishing instead!
* Please visit http://iharder.net/base64
* periodically to check for updates or to contribute improvements.
* </p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.2.2
*/

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/Base64.java
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Found in path(s):
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jar/org/owasp/esapi/codecs/CSSCodec.java
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/*
* The method is ESAPI's Key Derivation Function (KDF) that computes a
* derived key from the { @code keyDerivationKey } for either
* encryption / decryption or for authentication.
* </p>
* <b>CAUTION:</b> If this algorithm for computing derived keys from the
* key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
* able to decrypt data previously encrypted with earlier / different versions
* of this method. Therefore, do not change this unless you are 100% certain that
* what you are doing will NOT change either of the derived keys for
* ANY "key derivation key" AT ALL!!!
* </p>
* <b>NOTE:</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class { @code JavaEncryptor }
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.
* 
* @param keyDerivationKey A key used as an input to a key derivation function
* to derive other keys. This is the key that generally
* is created using some key generation mechanism such as
* { @link #generateSecretKey(String, int) }. The
* "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key.
* @param keySize The cipher's key size (in bits) for the { @code keyDerivationKey }.
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* <b>Note:</b> The derived key will have the same size as this.
* @param purpose The purpose for the derived key. Must be either the
* string "encryption" or "authenticity". Use "encryption" for
* creating a derived key to use for confidentiality, and "authenticity"
* for a derived key to use with a MAC to ensure message authenticity.
* @return The derived { @code SecretKey } to be used according
* to the specified purpose. Note that this serves the same purpose
* as "label" in section 5.1 of NIST SP 800-108.
* @throws NoSuchAlgorithmException The { @code keyDerivationKey } has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original { @code UnsupportedEncodingException }
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
* @deprecated Use{ @code KeyDerivationFunction } instead. This method will be removed as of
* ESAPI release 2.3 so if you are using this, please change your code.
* */
/**
 * Return true if specified cipher mode is one of those specified in the
 * { @code ESAPI.properties } file that supports both confidentiality
 * and authenticity (i.e., a "combined cipher mode" as NIST refers
 * to it).
 * @param cipherMode The specified cipher mode to be used for the encryption
 * or decryption operation.
 * @return true if the specified cipher mode is in the comma-separated list
 * of cipher modes supporting both confidentiality and authenticity;
 * otherwise false.
 * @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
 */

Found in path(s):
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/crypto/CryptoHelper.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/AbstractCodec.java

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/ValidationErrorList.java

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/codecs/AbstractPushbackSequence.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
  jar/org/owasp/esapi/codecs/PushbackSequence.java

1.3042 opensaml-security-api 3.3.0

1.3043 jul-to-slf4j 1.7.30
1.3043.1 Available under license:
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* */

Found in path(s):
* /opt/cola/permits/1135864176_1613618002.1/0/jul-to-slf4j-1-7-30-sources-1-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.3044 quagga 0.99.23

1.3044.1 Available under license:

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1.3045 spring-security-core 5.3.3.RELEASE

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jar/org/springframework/security/access/AuthorizationServiceException.java
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jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityInterceptor.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/access/intercept/RunAsUserToken.java
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/**
 * Determines if the {@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()}, else
 * false
 */

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 */
/**
 * Reviews the <code>Object</code> returned from a secure object invocation, being able to
 * modify the <code>Object</code> or throw an <code>AccessDeniedException</code>.
 * 
 * Typically used to ensure the principal is permitted to access the domain object
 * instance returned by a service layer bean. Can also be used to mutate the domain object
 * instance so the principal is only able to access authorised bean properties or
 * <code>Collection</code> elements.
 * 
 * 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.
 * 
 * @author Ben Alex
 */

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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/expression/method/MethodSecurityExpressionHandler.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/hierarchicalroles/NullRoleHierarchy.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/provisioning/InMemoryUserDetailsManager.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/prepost/PrePostAnnotationSecurityMetadataSource.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenDeserializer.java
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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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*/
/**
* 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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*/
/**
* Base64 encoder which is a reduced version of Robert Harder's public domain

* For internal use only.

* @author Luke Taylor

* @since 3.0

* @deprecated Use java.util.Base64

*/

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1.3046 iproute 4.3.0 1ubuntu3.16.04.5

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This is the Debian GNU/Linux's prepackaged version of the Linux Traffic Control engine and related utils, "iproute2"

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- /opt/cola/permits/1147423450_1617010568.13/0/spring-web-4-3-7-release-sources-3-jar/org/springframework/framework/web/bind/support/SessionStatus.java
- /opt/cola/permits/1147423450_1617010568.13/0/spring-web-4-3-7-release-sources-3-jar/org/springframework/framework/web/bind/support/WebBindingInitializer.java

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**1.3048 python 2.7.14**

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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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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created specifically to own Python-related Intellectual Property.
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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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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
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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expat
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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;
            }

            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 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 SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}

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;

    /**
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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;
}
@Override
public int hashCode() {

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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;
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;
    }
}
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;
            } else 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;
    }
}
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 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 null;
            }
        };
    }

    @Override
    public Enumeration<Permission> elementsCopy() {
        return new Enumeration<Permission>() {
            boolean more = all;

            @Override
            public boolean hasMoreElements() {
                return more;
            }

            @Override
            public Permission nextElement() {
                more = false;
                return null;
            }
        };
    }
}

public enum AllPermissions {
    ALL
}

public class Main {
    public static void main(String[] args) {
        AllPermissionsCollection collection = new AllPermissionsCollection(true);
        Permission p1 = new Permission("read");
        Permission p2 = new Permission("write");
        Permission p3 = new Permission("execute");

        collection.add(p1);
        collection.add(p2);
        collection.add(p3);

        if (collection.implies(new Permission("execute"))) {
            System.out.println("Access granted");
        } else {
            System.out.println("Access denied");
        }
    }
}
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>";
}

package com.hazelcast.security.permission;

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 */
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 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;
    }
}
return mask;

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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";
    }

}
package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, 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_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }

        return mask;
    }

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*/

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;
    }

    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!");
        }
        for (Permission p : permissions) {
            add(p);
        }
    }
}
if (permissions instanceof ClusterPermissionCollection) {
    for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
        add(p);
    }
}

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();
}

public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {

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;
    }
}

return "ClusterPermissionCollection [permClass=" + permClass + "]";
}
mask |= REMOVE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} 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;
            }
        }
        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;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     */

    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;
                }
            }
            return mask;
        }

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         */
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 QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;

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     * limitations under the License.
     */
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;
}

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 */
package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
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.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";

    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 AtomicReferencePermission(name, 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);
    }
});

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;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashCode;

    public ClusterPermission(String name) {
        super(name);
    }

    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) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        if (getName() == null ? obj.getName() != null : getName().equals(obj.getName())) {
            return false;
        }
        return true;
    }
}
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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 */

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;
            }
        }
        return mask;
    }
}
} 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;

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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 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 = 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 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 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;
            }

            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 MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}

1.3051 jboss-batch-api-1-0-spec 2.0.0.Final

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## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/batch-api
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## Third-party Content

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None

## Cryptography

None

1.3052 elasticsearch-rest-high-level-client

6.8.0

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 */

package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;

import org.elasticsearch.common.ParseField;
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);
}, new ParseField("acknowledge"));
}
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;
}

/**
 * If a trial license was started as a result of the request corresponding to this response (see \{@link 
 #isTrialWasStarted()\} then
 * returns the type of license that was started on the cluster. Returns null otherwise
 */
public String getLicenseType() {
    return licenseType;
}

/**
 * If a trial license was not started as a result of the request corresponding to this response (see \link
 #isTrialWasStarted() \) then
 * returns a brief message explaining why the trial could not be started. Returns false otherwise
 */
public String getErrorMessage() {
    return errorMessage;
}

/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from
 * starting a trial license
 * (see \link #isAcknowledged()), returns a message describing how the user must acknowledge licensing
 * changes as a result of
 * such a request. Returns null otherwise
 */
public String getAcknowledgeHeader() {
    return acknowledgeHeader;
}

/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from
 * starting a trial license
 * (see \link #isAcknowledged()), returns a map. The map's keys are names of commercial Elasticsearch
 * features, and their values are
 * messages about how those features will be affected by licensing changes as a result of starting a trial license
 */
public Map<String, String[]> getAcknowledgeMessages() {
    return acknowledgeMessages;
}

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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 trial status API
 */
public class GetTrialStatusResponse {

private static final ParseField ELIGIBLE_TO_START_TRIAL = new ParseField("eligible_to_start_trial");

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) {
            if (this == o) {
                    return true;
            }
            return false;
    }
}
if (o == null || getClass() != o.getClass()) {
    return false;
}

GetBasicStatusResponse that = (GetBasicStatusResponse) o;
return eligibleToStartBasic == that.eligibleToStartBasic;

@Override
public int hashCode() {
    return Objects.hash(eligibleToStartBasic);
}

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.util.Map;
import java.util.Objects;

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(), "unexpected acknowledgement 
                            type");
                        }
                    }
                }
            }
            if (message != null) {
                acknowledgeMessages.put("message", message);
            }
        });
    }
}
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);
}

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);
}

/*@Override*/

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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);
        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) {
                if (token == XContentParser.Token.FIELD_NAME) {
                    currentFieldName = parser.currentName();
                } else {
                    if (currentFieldName == null) {
                        message = parser.text();
                        acknowledgeMessages.put(currentFieldName, new String[]{message});
                    } else {  // currentFieldName != null, should not happen here
                        message = parser.text();
                        acknowledgeMessages.put(currentFieldName, new String[]{message});
                    }
                    continue;
                }
            }
            Map<String, String[]> acknowledgements = new HashMap<>();
            acknowledgements.putAll(acknowledgeMessages);
            return new StartBasicResponse(status, acknowledgements, acknowledgements);
        });
    }
}
throw new XContentParseException(parser.getTokenLocation(), "expected message header or
acknowledgement");
}
if (new ParseField("message").getPreferredName().equals(currentFieldName)) {
ensureExpectedToken(XContentParser.Token.VALUE_STRING, token,
parsed::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,
parsed::getTokenLocation);
acknowledgeMessagesList.add(parser.text());
}
acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
}
return new Tuple<>(message, acknowledgeMessages);
}
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;
        }
    }
    return null;
}
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);
}

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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;
    }
}

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package org.elasticsearch.client.license;

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 {

    import org.elasticsearch.client.TimedRequest;

    public class DeleteLicenseRequest extends TimedRequest {

    }
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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         */
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 + "]");
}
}
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 */

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 * Request and Response objects for the default distribution's License APIs.
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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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1.3065 ajaxterm4j-trilead-ssh 1.7

1.3066 smallrye-config-common 1.6.2

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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
 */
1.3068 asm 8.0.1

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1.3070 brave-instrumentation-kafka-streams

5.12.3

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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/MediaTypeReader.java
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1.3077 neo4j-cypher-logical-plans 3.5.4

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The class org.apache.lucene.util.WeakIdentityMap was derived from the Apache CXF project and is Apache License 2.0.

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The snowball stemmers in
   analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
   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) under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default 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,
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/es/SpanishMinimalStemmer.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/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.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

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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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1.3082 jackson-dataformat-yaml 2.8.11

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1.3083 cpp 5.4.0-6ubuntu1~16.04.11

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.3122 xz 5.2.4 1
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1.3125 websocket-servlet 9.4.29.v20200521

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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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* 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

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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

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1.3126 argparse 0.7.0

1.3127 libnl3 3.4.0 1.0

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

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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
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
GPL-2... it was a modified artistic license... i didn't 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=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictate 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
>>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
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> > and see if he wants to relicense his code as LGPL... but at this
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> > > 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 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 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 you 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 you 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
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 ...
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 alemcm@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 ESMTPT id 191Gxtpr020623
   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 ESMTPT id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
   Received: from [82.68.43.14] (helol=[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: <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
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

1.3129 init-ifupdown 1

1.3129.1 Available under license:

This package was created by Peter Tobias Tobias@et-inf.fho-emden.de on Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns <ajt@debian.org> until 2001.

It is currently maintained by Marco d'Itri <md@linux.it>.

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1.3130 jquery-scrollto 2.1.2

1.3130.1 Available under license :
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1.3131 freemarker 2.3.30

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* java.sun.security.ssl

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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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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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1.3137 base-passwd 3.5.39

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Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*
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Files: passwd.master, group.master
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dar/jar/org/springframework/data/rest/webmvc/RepositoryEntityController.java
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der/jar/org/springframework/data/rest/webmvc/PersistentEntityResourceAssembler.java
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der/jar/org/springframework/data/rest/webmvc/json/Jackson2DatatypeHelper.java
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* /opt/ws_local/PERMITS_SQL/1074015406_1595536413.31/0/spring-data-rest-webmvc-2-6-1-release-sources-jar/org/springframework/data/rest/webmvc/PersistentEntityResource.java
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1.3146 commons-configuration 1.6

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1.3147 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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1.3148 jwt-go v3.2.0+incompatible

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