Open Source Used In Cisco VIM 3.4.3

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Authors as known by current RCS as of the time of writing:
Abhijith Das <adas at redhat.com>
Adam Manthei <amanthei at redhat.com>
A. J. Lewis <alewis at redhat.com>
Alasdair G. Kergon <agk at redhat.com>
Andrew Price <andy at andrewprice.me.uk>
Benjamin Marzinski <bmarzins at redhat.com>
Bob Peterson <peterso at redhat.com>
Chris Feist <cfeist at redhat.com>
Christine Caulfield <ccaulfie at redhat.com>
Daniel Phillips <phillips at redhat.com>
David Teigland <teigland at redhat.com>
Fabio M. Di Nitto <fdinitto at redhat.com>
James Parsons <jparsons at redhat.com>
Joel Becker <joel.becker at oracle.com>
Jonathan Brassow <jbrassow at redhat.com>
jparsons <jparsons at redhat.com>
Ken Preslan <kpreslan at redhat.com>
Klaus Wenninger <kwenning at redhat.com>
Lon Hohberger <lh at redhat.com>
Marc - A. Dahlhaus <mad at wol.de>
Marek 'marx' Grac <mgrac at redhat.com>
Mark Hlawatschek <hlawatschek at atix.de>
Michael Conrad Tadpol Tilstra <mtilstra at redhat.com>
Patrick Caulfield <pcaulfie at redhat.com>
Robert Peterson <peterso at redhat.com>
Ross Vandegrift <ross at kallisti.us>
Ryan McCabe <rmccabe at redhat.com>
Ryan O'Hara <rohara at redhat.com>
Stanko Kupcevic <kupevic at redhat.com>
Steven Whitehouse <swhiteho at redhat.com>
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Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>
On November 23, 2008, you wrote:
>Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
>working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
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>PyCrypto, with the following notice?
>
> The contents of this file are dedicated to the public domain. To the
>extent that dedication to the public domain is not available, everyone
>is granted a worldwide, perpetual, royalty-free, non-exclusive license
>to exercise all rights associated with the contents of this file for
>any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnAHl8UnN8n93LBQgLp/gQAhr7x8AV1mstC2kxEJDWTm26PTAZxMz4B
FektbDOzkgc5580MGGeeX/MVn8awi1BHg0YD85gsntIDzkcQtb+BR/xAwJ5zKyA
J/Mn/I+16ekjQ3juh8dPHLAduOXm9Rtguas/yR+D0aq0xOPKoBx++/5+t11LJtBcZ
wrPEa9Oui9s=
=2SY9

-----END PGP SIGNATURE-----
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Dependent Modules
=================

This code has the following dependencies above and beyond the Python standard library:

uritemplates - Apache License 2.0
httplib2 - MIT License

This software is made available under the terms of *either* of the licenses found in LICENSE.APACHE or LICENSE.BSD. Contributions to uritemplate.py are made under the terms of *both* these licenses.

Contributors
------------

* Kang Zhang
* Tarek Ziad
* Marcin Kasperski
* Steve Borho
* Michael Gruenewald
* Jason R. Coombs
* Benji York
* Jonathan Ballet
* Gary Poster
* Patrick Mezard
* Jrme Laheurte
* Jake Basile
* Jelmer Vernooij
* Andr Sintzoff
* Thomas Kluyver
* Sebastian Ramacher
* Robert Leftwich
* Kyle Stark
* Daniel Holth
* Manuel de la Pea
* Dmitry Shachnev
# Contributors to oauth2client

## Maintainers

* [Nathaniel Manista](https://github.com/nathanielmanistaatgoogle)
* [Jon Wayne Parrott](https://github.com/jonparrott)
* [Danny Hermes](https://github.com/dhermes)
Previous maintainers:

* [Craig Citro](https://github.com/craigcitro)
* [Joe Gregorio](https://github.com/jcgregorio)

## Contributors

This list is generated from git commit authors.

* aalexand <aalexand@google.com>
* Aaron <aaronwinter@users.noreply.github.com>
* Adam Chainz <me@adamj.eu>
* ade@google.com
* Alexandre Vivien <alx.vivien@gmail.com>
* Ali Afshar <afshar@google.com>
* Andrzej Pragacz <apragacz@o2.pl>
* api.nickm@gmail.com
* Ben Demaree <bendemaree@gmail.com>
* Bill Prin <waprin@gmail.com, waprin@google.com>
* Brendan McCollam <brendan@mccoll.am, bmccollam@uchicago.edu>
* Craig Citro <craigcitro@gmail.com, craigcitro@google.com>
* Dan Ring <dfring@gmail.com>
* Daniel Hermes <dhermes@gmail.com, daniel.j.hermes@gmail.com>
* Danilo Akamine <danilowz@gmail.com>
* daryl herzmann <akrherz@iastate.edu>
* dlorenc <lorenc.d@gmail.com>
* Dominik Miedziski <dominik@mdzn.pl>
* dr. Kertsz Csaba-Zoltan <cskertesz@gmail.com>
* Dustin Farris <dustin@dustinfarris.com>
* Eddie Warner <happyspace@gmail.com>
* Edwin Amsler <EdwinGuy@GMail.com>
* elibixby <elibixby@gmail.com>
* Emanuele Pucciarelli <ep@acm.org>
* Eric Koleda <eric.koleda@gmail.com>
* Frederik Creemers <frederikcreemers@gmail.com>
* Guido van Rossum <guido@python.org>
* Harsh Vardhan <harshvd95@gmail.com>
* Herr Kaste <tldz.x@gmx.net>
* INADA Naoki <inada-n@klab.com>
* JacobMoshenko <moshenko@gmail.com>
* Jay Lee <jay0lee@gmail.com>
* Jed Hartman <jhartman@google.com>
* Jeff Terrace <jtterace@gmail.com, jtterace@google.com>
* Jeffrey Sorensen <sorensenj@users.noreply.github.com>
* Jeremi Joslin <jeremi@collabspot.com>
* Jin Liu <liujin@gmail.com>
* Joe Beda <jbeda@gmail.com>
* Joe Gregorio <jcgregorio@google.com, joe.gregorio@gmail.com>
* Johan Euphrosine <proppy@google.com>
* John Asmuth <jasmuth@gmail.com, jasmuth@gmail.com>
* John Vandenberg <jayvdb@gmail.com>
* Jon Wayne Parrott <jon.wayne.parrott@gmail.com, jonwayne@gmail.com>
* Jose Alcerreca <jalc@gmail.com>
* KCs <cskertesz@gmail.com>
* Keith Maxwell <keith.maxwell@gmail.com>
* Ken Payson <kpayson@gmail.com>
* Kevin Regan <regank@gmail.com>
* iraccomoando <iraccomoando@gmail.com>
* Luar Roji <cyberplant@users.noreply.github.com>
* Luke Blanshard <leadpipe@gmail.com>
* Marc Cohen <marccohen@gmail.com>
* Mark Pellegrini <markpell@gmail.com>
* Martin Trigaux <mat@odoo.com>
* Matt McDonald <mmdonald@gmail.com>
* Nathan Naze <nanaze@gmail.com>
* Nathaniel Manista <nathaniel@gmail.com>
* Orest Bolohan <orest@gmail.com>
* Pat Ferate <pferate@gmail.com>
* Patrick Costello <pcostello@gmail.com>
* Rafe Kaplan <rafek@gmail.com>
* rahulpaul@gmail.com <rahulpaul@gmail.com>
* RM Saksida <rsaksida@gmail.com>
* Robert Kaplow <rkaplow@gmail.com>
* Robert Spies <wilford@gmail.com>
* Sergei Trofimovich <siarheit@gmail.com>
* sgomes@gmail.com <sgomes@gmail.com>
* Simon Cadman <src@niftiestsoftware.com>
* soltannnn <soltannnn@users.noreply.github.com>
* Sbastien de Melo <sebastien.de-melo@ubicast.eu>
* takuya sato <sato-taku@klab.com>
* thobrla <thobrla@gmail.com>
* Tom Miller <tom.h.miller@gmail.com>
* Tony Aiuto <aiuto@gmail.com>
* Travis Hobrla <thobrla@gmail.com>
* Veres Lajos <vlajos@gmail.com>
* Vivek Seth <vivekseth.m@gmail.com>
* amonn McManus <eamonn@mcmanus.net>

00INDEX  This file
LICENSE.org  Original (deprecated) license for the Python Cryptography Toolkit
LICENSE.libtom  LICENSE file from LibTomCrypt
stmts/  Statements by contributors
From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
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```
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
```

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

Regards,
  - Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 5D9AEF984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
   envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
    by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHhl1HeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
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DomainKey-Signature:a=rsa-sha1; q=dns; c=nofws;
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h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
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   eo=;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkJ1AKUHSFsFn7t9PbteAewXJ2uZGCO1GCX6oVnG3u.CgqzAffY
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
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Regards,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1
1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; id=19E11FE8B3CF273ED174A24928CEC1339C25CF7 (only for key signing); preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008); preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3677
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-- YiEDa0DAkWCtVeE4

Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

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The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

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Version 2.0, January 2004
http://www.apache.org/licenses/

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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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From dlitz@dlitz.net Sun Aug  2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public
domain all your contributions to PyCrypto, with the following notice?

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
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Received: (vmmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
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  DomainKey-Signature: a=rsa-shal; c=nofws;
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Yes, that's fine. Good luck with the new release!

-p

--20

Paul Swartz
paulswartz at gmail dot com

http://paulswartz.net/

AIM: z3penguin

From dlitz@dlitz.net Mon Aug  3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE88B3CF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
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id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
>>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>>> working on a new release at http://www.pycrypto.org/.
>>
>> That's great!
>>
I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao
PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

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> 
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> 
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> (though that would be nice).
> 
> --amk                                                    (www.amk.ca)
> 
> For the next PyCrypto release, I would like to take steps to move toward a
> clearer licensing regime. I am asking as many copyright holders as I can
> find if I can release PyCrypto under something clearer and more standard.
> Below, I have quoted a public domain dedication that was recommended in
> _Intellectual Property and Open Source: A Practical Guide to Protecting
> Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
> Pointer, and Wim Lewis, and they have all approved the following text for
> their contributions.
> 
> I understand that you have made contributions to PyCrypto. May I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
> with the following notice?
> 
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Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256 module, IRC).</div>\</div></p>

If #39;d be fine with the public domain license for PyCrypto.</div></p><div>Jeethu Rao</div><div>PS: Apologies for the delay in my response. =A0</div>

<br/>

Hi Jeethu,<br/>


People often ask me what license PyCrypto is covered by, if it is compatible, etc. =A0Right now, I don't really know. =A0The text in the current LICENSE file (quoted below) is not entirely clear on the point whether distributing modified versions is allowed. =A0(If so, distribute and use, but not modify.)<br/>

Selvadurai's primary email address is "dlitz@dlitz.net", and the public key for the key-signing key is:

19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--

Jeethu Rao

--000e0cd209d0e5a3d40464a23054

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--

Jeethu Rao

--000e0cd209d0e5a3d40464a23054

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Regards,

- Dwayne

--
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Dwayne C. Litzenberger &lt;dlitz@dlitz.net&gt;

---

Key-signing key - 19E1 1FE8 B3CF F273 ED17 A04A24 928C EC13 39C2 5CF7

--
Jeethu Rao

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From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk [193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
-----BEGIN PGP SIGNED MESSAGE-----

# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#  dlitz@dlitz.net
# requested that this message be sent to:-
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#  enc@nsa.gov
#  web_site@bis.doc.gov
#  pycrypto@lists.dlitz.net
#  PYTHON-CRYPTO@NIC.SURFNET.NL

########################################################
#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
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# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL

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# dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information on the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
#
########################################################

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

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XYhY+HbRjsD741/GSpO91l5ln0UghshF0LIndnNSAvWf4aPyh5KCN7ho+/BC0v/

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(www.amk.ca)

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I understand that you have made contributions to PyCrypto. May I, on your
behalf, dedicate to the public domain all your contributions to PyCrypto,
with the following notice?

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any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Open Source Used In Cisco VIM 3.4.3109
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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

Hi Dwayne,
Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)
> 
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> ==============================================================
> 
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> not have to make source available or contribute your changes back
> (though that would be nice).
> 
> --amk                                                    (www.amk.ca)
> 
> For the next PyCrypto release, I would like to take steps to move toward a
> clearer licensing regime. I am asking as many copyright holders as I can
> find if I can release PyCrypto under something clearer and more standard.
> Below, I have quoted a public domain dedication that was recommended in
> _Intellectual Property and Open Source: A Practical Guide to Protecting
> Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
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> 
> ==============================================================
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> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> > Thanks for taking over the PyCrypto library and putting in the required
> > effort to keep this going.
> > I was very excited to read that it is now one of the installed libraries
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Joris

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Regards,

- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

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Dependent Modules

This code has the following dependencies above and beyond the Python standard library:

httplib2 - MIT License
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
   by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
   by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo@mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
   by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
   by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJhnEjvBPnXfIVAQLZjgP/ecG+JdZwNvPJRfسا6rhY6+MHLDHI6agk
evkJnSJQAcVHlZnVlVeR51XgvDUmakiZJsu4S0V7MqkhSb9Ie7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXMm74qqrblPCCbCRmpaYN0+DZohwHkeFBjbwDRA3wItOv7H
SK4w9VBJtY=3D
=3DQduY
-----END PGP SIGNATURE-----

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Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:
> For the next PyCrypto release, I would like to take steps to move
toward a clearer licensing regime. I am asking as many copyright
holders as I can find if I can release PyCrypto under something
clearer and more standard. Below, I have quoted a public domain
dedication that was recommended in _Intellectual Property and Open
Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
have already contacted A. M. Kuchling, and he has approved the
following dedication for his contributions.
>
> May I, on your behalf, dedicate to the public domain all your
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>
> =

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> 
> =
```

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCi9LAbQ
SH8AoLJaqq1li7/ZYDc+/Cd8VO0xLbr
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1.3 python2-keystoneclient 3.15.0 1.el7ost
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1.10 urllib3 1.22

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>
## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSR1BZdBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite
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* Marc Schlaich <marc.schlaich@gmail.com>
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  * 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

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  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

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  * Support for non-ASCII header parameters

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  * 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 <jatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

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  * 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 vendoring

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

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Contributors
============
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- Gavin M. Roy
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1.14 python-repoze-lru 0.4 8.el7ost

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## 1.17 python2-os-vif 1.9.1 3.el7ost

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1.20 golang-protobuf v1.3.1 b5d812f
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1.21 python-beaker 1.5.4 10.el7

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1.22 libarchive 3.1.2 10.el7_2

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1.23 python2-openstacksdk 0.11.3 4.el7ost

1.23.1 Available under license :

========================================
OpenStack SDK Developer Coding Standards
========================================

In the beginning, there were no guidelines. And it was good. But that didn't last long. As more and more people added more and more code, we realized that we needed a set of coding standards to make sure that the openstacksdk API at least *attempted* to display some form of consistency.

Thus, these coding standards/guidelines were developed. Note that not all of openstacksdk adheres to these standards just yet. Some older code has not been updated because we need to maintain backward compatibility. Some of it just hasn't been changed yet. But be clear, all new code *must* adhere to these guidelines.

Below are the patterns that we expect openstacksdk developers to follow.

Release Notes
============

openstacksdk uses `reno <http://docs.openstack.org/developer/reno/>`_ for managing its release notes. A new release note should be added to your contribution anytime you add new API calls, fix significant bugs, add new functionality or parameters to existing API calls, or make any other significant changes to the code base that we should draw attention to for the user base.
It is *not* necessary to add release notes for minor fixes, such as correction of documentation typos, minor code cleanup or reorganization, or any other change that a user would not notice through normal usage.

Exceptions
==========

Exceptions should NEVER be wrapped and re-raised inside of a new exception. This removes important debug information from the user. All of the exceptions should be raised correctly the first time.

openstack.cloud API Methods
===========================

The `openstack.cloud` layer has some specific rules:

- When an API call acts on a resource that has both a unique ID and a name, that API call should accept either identifier with a name_or_id parameter.

- All resources should adhere to the get/list/search interface that control retrieval of those resources. E.g., `get_image()`, `list_images()`, `search_images()`.

- Resources should have `create_RESOURCE()`, `delete_RESOURCE()`, `updateRESOURCE()` API methods (as it makes sense).

- For those methods that should behave differently for omitted or None-valued parameters, use the `_utils.valid_kwargs` decorator. Notably: all Neutron `update_*` functions.

- Deleting a resource should return True if the delete succeeded, or False if the resource was not found.

Returned Resources
-------------------

Complex objects returned to the caller must be a `munch.Munch` type. The `openstack._adapter.ShadeAdapter` class makes resources into `munch.Munch`.

All objects should be normalized. It is shade's purpose in life to make OpenStack consistent for end users, and this means not trusting the clouds to return consistent objects. There should be a normalize function in `openstack/cloud/_normalize.py` that is applied to objects before returning them to the user. See :doc:`../user/model` for further details on object model requirements.
Fields should not be in the normalization contract if we cannot commit to providing them to all users.

Fields should be renamed in normalization to be consistent with the rest of `openstack.cloud`. For instance, nothing in `openstack.cloud` exposes the legacy OpenStack concept of "tenant" to a user, but instead uses "project" even if the cloud in question uses tenant.

Nova vs. Neutron

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

- Recognize that not all cloud providers support Neutron, so never assume it will be present. If a task can be handled by either Neutron or Nova, code it to be handled by either.

- For methods that accept either a Nova pool or Neutron network, the parameter should just refer to the network, but documentation of it should explain about the pool. See: `create_floating_ip()` and `available_floating_ip()` methods.

Tests
=====

- New API methods *must* have unit tests!

- New unit tests should only mock at the REST layer using `requests_mock`. Any mocking of openstacksdk itself should be considered legacy and to be avoided. Exceptions to this rule can be made when attempting to test the internals of a logical shim where the inputs and output of the method aren't actually impacted by remote content.

- Functional tests should be added, when possible.

- In functional tests, always use unique names (for resources that have this attribute) and use it for clean up (see next point).

- In functional tests, always define cleanup functions to delete data added by your test, should something go wrong. Data removal should be wrapped in a try except block and try to delete as many entries added by the test as possible.

Creating a Development Environment

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

Required Tools
---------------

Python

*****
As the OpenStack SDK is developed in Python, you will need at least one version of Python installed. It is strongly preferred that you have at least one of version 2 and one of version 3 so that your tests are run against both. Our continuous integration system runs against several versions, so ultimately we will have the proper test coverage, but having multiple versions locally results in less time spent in code review when changes unexpectedly break other versions.

Python can be downloaded from https://www.python.org/downloads.

virtualenv

In order to isolate our development environment from the system-based Python installation, we use `virtualenv <https://virtualenv.pypa.io/en/latest/>`_. This allows us to install all of our necessary dependencies without interfering with anything else, and preventing others from interfering with us. Virtualenv must be installed on your system in order to use it, and it can be had from PyPI, via pip, as follows. Note that you may need to run this as an administrator in some situations.:

```
$ apt-get install python-virtualenv  # Debian based platforms
$ yum install python-virtualenv      # Red Hat based platforms
$ pip install virtualenv             # Mac OS X and other platforms
```

You can create a virtualenv in any location. A common usage is to store all of your virtualenvs in the same place, such as under your home directory. To create a virtualenv for the default Python, likely a version 2, run the following:

```
$ virtualenv $HOME/envs/sdk
```

To create an environment for a different version, such as Python 3, run the following:

```
$ virtualenv -p python3.4 $HOME/envs/sdk3
```

When you want to enable your environment so that you can develop inside of it, you *activate* it. To activate an environment, run the `/bin/activate` script inside of it, like the following:

```
$ source $HOME/envs/sdk3/bin/activate
(sdk3)$
```

Once you are activated, you will see the environment name in front of your command prompt. In order to exit that environment, run the ```deactivate``` command.
We use `tox <https://tox.readthedocs.org/en/latest/>`_ as our test runner, which allows us to run the same test commands against multiple versions of Python. Inside any of the virtualenvs you use for working on the SDK, run the following to install ``tox`` into it.::

(sdk3)$ pip install tox

Git
***

The source of the OpenStack SDK is stored in Git. In order to work with our source repository, you must have Git installed on your system. If your system has a package manager, it can likely be had from there. If not, you can find downloads or the source at http://git-scm.com.

Getting the Source Code
-----------------------

.. TODO(briancurtin): We should try and distill the following document into the minimally necessary parts to include directly in this section. I've talked to several people who are discouraged by that large of a document to go through before even getting into the project they want to work on. I don't want that to happen to us because we have the potential to be more public facing than a lot of other projects.

.. note:: Before checking out the code, please read the OpenStack `Developer's Guide <http://docs.openstack.org/infra/manual/developers.html>`_ for details on how to use the continuous integration and code review systems that we use.

The canonical Git repository is hosted on openstack.org at http://git.openstack.org/cgit/openstack/python-openstacksdk/, with a mirror on GitHub at https://github.com/openstack/python-openstacksdk. Because of how Git works, you can create a local clone from either of those, or your own personal fork.::

(sdk3)$ git clone https://git.openstack.org/openstack/python-openstacksdk.git
(sdk3)$ cd python-openstacksdk

Installing Dependencies
-----------------------

In order to work with the SDK locally, such as in the interactive interpreter or to run example scripts, you need to install the project's dependencies.::
(sdk3)$ pip install -r requirements.txt

After the downloads and installs are complete, you'll have a fully functional environment to use the SDK in.

Building the Documentation
--------------------------

Our documentation is written in reStructured Text and is built using Sphinx. A `docs` command is available in our `tox.ini`, allowing you to build the documentation like you'd run tests. The `docs` command is not evaluated by default.::

(sdk3)$ tox -e docs

That command will cause the documentation, which lives in the `docs` folder, to be built. HTML output is the most commonly referenced, which is located in `docs/build/html`.

Contributing to the OpenStack SDK
=================================

This section of documentation pertains to those who wish to contribute to the development of this SDK. If you're looking for documentation on how to use the SDK to build applications, please see the `user <../users>` section.

About the Project
-----------------

The OpenStack SDK is a OpenStack project aimed at providing a complete software development kit for the programs which make up the OpenStack community. It is a set of Python-based libraries, documentation, examples, and tools released under the Apache 2 license.

Contacting the Developers
-------------------------

IRC
***
The developers of this project are available in the `#openstack-sdks <http://webchat.freenode.net?channels=%23openstack-sdks>`_ channel on Freenode. This channel includes conversation on SDKs and tools within the general OpenStack community, including OpenStackClient as well as occasional talk about SDKs created for languages outside of Python.

Email
*****

The `openstack-dev <mailto:openstack-dev@openstack.org?subject=[python-openstacksdk]%20Question%20about%20the%20python-openstacksdk>`_ mailing list fields questions of all types on OpenStack. Using the `"[python-openstacksdk]"` filter to begin your email subject will ensure that the message gets to SDK developers.

Coding Standards
--------------

We are a bit stricter than usual in the coding standards department. It's a good idea to read through the :doc:`coding <coding>` section.

.. toctree::
   :maxdepth: 2

   coding

Development Environment
-----------------------

The first step towards contributing code and documentation is to setup your development environment. We use a pretty standard setup, but it is fully documented in our :doc:`setup <setup>` section.

.. toctree::
   :maxdepth: 2

   setup

Testing
-------

The project contains three test packages, one for unit tests, one for functional tests and one for examples tests. The `"openstack.tests.unit"` package tests the SDK's features in isolation. The `"openstack.tests.functional"` and `"openstack.tests.examples"` packages test the SDK's features and examples against an OpenStack cloud.
The project contains a top-level `openstack` package, which houses several modules that form the foundation upon which each service's API is built on. Under the `openstack` package are packages for each of those services, such as `openstack.compute`.

Does this SDK not do what you need it to do? Is it missing a service? Are you a developer on another project who wants to add their service? You're in the right place. Below are examples of how to add new features to the OpenStack SDK.

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clouds:
  test_cloud:
    region_name: RegionOne
    auth:
      auth_url: http://xxx.xxx.xxx.xxx:5000/v2.0/
      username: demo
      password: secrete
      project_name: demo
  example:
    image_name: fedora-20.x86_64
    flavor_name: m1.small
    network_name: private
  rackspace:
    cloud: rackspace
    auth:
      username: joe
      password: joes-password
      project_name: 123123
      region_name: IAD

# Apache 2 header omitted for brevity

from openstack.fake import fake_service
from openstack import resource

class Fake(resource.Resource):
    resource_key = "resource"
    resources_key = "resources"
    base_path = ".fake"
    service = fake_service.FakeService()

    allow_create = True
    allow_get = True
    allow_update = True
allow_delete = True
allow_list = True
allow_head = True

#: The transaction date and time.
timestamp = resource.Header("x-timestamp")
#: The name of this resource.
name = resource.Body("name", alternate_id=True)
#: The value of the resource. Also available in headers.
value = resource.Body("value", alias="x-resource-value")
#: Is this resource cool? If so, set it to True.
#: This is a multi-line comment about cool stuff.
cool = resource.Body("cool", type=bool)
# Apache 2 header omitted for brevity

from openstack import service_filter

class FakeService(service_filter.ServiceFilter):
    """The fake service.""

    valid_versions = [service_filter.ValidVersion('v2')]

def __init__(self, version=None):
    """Create a fake service.""
    super(FakeService, self).__init__(service_type='fake', version=version)
.. TODO(shade) Update this guide.

Creating a New Resource
========================

This guide will walk you through how to add resources for a service.

Naming Conventions
------------------

Above all, names across this project conform to Python's naming standards, as laid out in `PEP 8 <https://www.python.org/dev/peps/pep-0008/>`_.

The relevant details we need to know are as follows:

* Module names are lower case, and separated by underscores if more than one word. For example, `openstack.object_store`
* Class names are capitalized, with no spacing, and each subsequent word is capitalized in a name. For example, `ServerMetadata`.
* Attributes on classes, including methods, are lower case and separated by underscores. For example, `allow_list` or `get_data`.
Services
*********

Services in the OpenStack SDK are named after their program name, not their code name. For example, the project often known as "Nova" is always called "compute" within this SDK.

This guide walks through creating service for an OpenStack program called "Fake". Following our guidelines, the code for its service would live under the ``openstack.fake`` namespace. What follows is the creation of a :class:`~openstack.resource.Resource` class for the "Fake" service.

Resources
*********

Resources are named after the server-side resource, which is set in the "base_path" attribute of the resource class. This guide creates a resource class for the `/fake` server resource, so the resource module is called `fake.py` and the class is called `Fake`.

An Example
----------

```
`openstack/fake/fake_service.py`
```

.. literalinclude:: examples/resource/fake_service.py
   :language: Python
   :linenos:

```
`openstack/fake/v2/fake.py`
```

.. literalinclude:: examples/resource/fake.py
   :language: Python
   :linenos:

```
`fake.Fake` Attributes
------------------------

Each service's resources inherit from :class:`~openstack.resource.Resource`, so they can override any of the base attributes to fit the way their particular resource operates.

```
`resource_key` and `resources_key`
```

******************************************************************************

These attributes are set based on how your resource responds with data. The default values for each of these are "None", which works fine when your resource returns a JSON body that can be used directly without a
top-level key, such as `"name": "Ernie Banks", ..."`.

However, our `Fake` resource returns JSON bodies that have the details of the resource one level deeper, such as
`"resources": [{'name": "Ernie Banks", ...}]`. It does a similar thing with single resources, putting them inside a dictionary keyed on `"resource"`.

By setting `Fake.resource_key` on *line 8*, we tell the `Resource.create`, `Resource.get`, and `Resource.update` methods that we're either sending or receiving a resource that is in a dictionary with that key.

By setting ` Fake.resources_key` on *line 9*, we tell the `Resource.list` method that we're expecting to receive multiple resources inside a dictionary with that key.

```
'base_path'
*************

The `base_path` is the URL we're going to use to make requests for this resource. In this case, *line 10* sets `base_path = "/fake"`, which also corresponds to the name of our class, `Fake`.

Most resources follow this basic formula. Some cases are more complex, where the URL to make requests to has to contain some extra data. The volume service has several resources which make either basic requests or detailed requests, so they use `base_path = "/volumes/%s(detailed)"`. Before a request is made, if `detailed = True`, they convert it to a string so the URL becomes `"/volumes/detailed"`. If it's `False`, they only send `"/volumes/"`.

```
'service'
***********

*Line 11* is an instance of the service we're implementing. Each resource ties itself to the service through this setting, so that the proper URL can be constructed.

In `fake_service.py`, we specify the valid versions as well as what this service is called in the service catalog. When a request is made for this resource, the Session now knows how to construct the appropriate URL using this `FakeService` instance.

Supported Operations
---------------------

The base :class:`openstack.resource.Resource` disallows all types of requests by default, requiring each resource to specify which requests they support.

On *lines 14-19*, our `Fake` resource specifies that it'll work with all
of the operations.

In order to have the following methods work, you must allow the corresponding value by setting it to "True":

+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.create` | allow_create   |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.delete` | allow_delete   |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.head`   | allow_head     |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.list`   | allow_list     |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.get`    | allow_get      |
+----------------------------------------------+----------------+
| :class:`~openstack.resource.Resource.update` | allow_update   |
+----------------------------------------------+----------------+

An additional attribute to set is "put_update" if your service uses "PUT" requests in order to update a resource. By default, "PATCH" requests are used for "Resource.update".

Properties
----------

.. TODO(shade) Especially this section

The way resource classes communicate values between the user and the server are :class:`~openstack.resource.prop` objects. These act similarly to Python's built-in property objects, but they share only the name - they're not the same.

Properties are set based on the contents of a response body or headers. Based on what your resource returns, you should set "prop"s to map those values to ones on your :class:`~openstack.resource.Resource` object.

*Line 22* sets a prop for "timestamp", which will cause the "X-Timestamp" attribute to contain the value returned in an "X-Timestamp" header, such as from a "Fake.head" request.

*Line 24* sets a prop for "name", which is a value returned in a body, such as from a "Fake.get" request. Note from *line 12* that "name" is specified its "id" attribute, so when this resource is populated from a response, "Fake.name" and "Fake.id" are the same value.

*Line 26* sets a prop which contains an alias. "Fake.value" will be set
when a response body contains a `value`, or when a header contains `X-Resource-Value`.

*Line 28* specifies a type to be checked before sending the value in a request. In this case, we can only set `Fake.cool` to either `True` or `False`, otherwise a TypeError will be raised if the value can't be converted to the expected type.

Documentation
-------------

We use Sphinx’s `autodoc` feature in order to build API documentation for each resource we expose. The attributes we override from `openstack.resource.Resource` don't need to be documented, but any `openstack.resource.prop` attributes must be. All you need to do is add a comment *above* the line to document, with a colon following the pound-sign.

*Lines 21, 23, 25, and 27-28* are comments which will then appear in the API documentation. As shown in *lines 27 & 28*, these comments can span multiple lines.

Testing
=======


Unit Tests
---------

Run
**

In order to run the entire unit test suite, simply run the `tox` command inside of your source checkout. This will attempt to run every test command listed inside of `tox.ini`, which includes Python 2.7, 3.4, PyPy, and a PEP 8 check. You should run the full test suite on all versions before submitting changes for review in order to avoid unexpected failures in the continuous integration system.:.

```
(sdk3)$ tox
...
py34: commands succeeded
py27: commands succeeded
pypy: commands succeeded
pep8: commands succeeded
```
congratulations :) 

During development, it may be more convenient to run a subset of the tests to keep test time to a minimum. You can choose to run the tests only on one version. A step further is to run only the tests you are working on::<br />

(sdk3)$ tox -e py34 # Run run the tests on Python 3.4<br /
(sdk3)$ tox -e py34 TestContainer # Run only the TestContainer tests on 3.4

**Functional Tests**

The functional tests assume that you have a public or private OpenStack cloud that you can run the tests against. The tests must be able to be run against public clouds but first and foremost they must be run against OpenStack. In practice, this means that the tests should initially be run against a stable branch of DevStack <https://docs.openstack.org/devstack/latest/>_

DevStack

There are many ways to run and configure DevStack. The link above will show you how to run DevStack a number of ways. You’ll need to choose a method you’re familiar with and can run in your environment. Wherever DevStack is running, we need to make sure that python-openstacksdk contributors are using the same configuration.

This is the `local.conf` file we use to configure DevStack.

.. literalinclude:: local.conf

Replace `DEVSTACK_PASSWORD` with a password of your choice.

Replace `OPENSTACK_VERSION` with a `stable` branch <http://git.openstack.org/cgit/openstack-dev/devstack/refs/>_

of OpenStack (without the `stable/` prefix on the branch name).

os-client-config

To connect the functional tests to an OpenStack cloud we use
`os-client-config <http://git.openstack.org/cgit/openstack/os-client-config/tree/README.rst>`_

To setup os-client-config create a `clouds.yaml` file in the root of your source checkout.

This is an example of a minimal configuration for a `clouds.yaml` that connects the functional tests to a DevStack instance. Note that one cloud under `clouds` must be named `test_cloud`.

---

Open Source Used In Cisco VIM 3.4.3275
Replace ``xxx.xxx.xxx.xxx`` with the IP address or FQDN of your DevStack instance.

You can also create a ``~/.config/openstack/clouds.yaml`` file for your DevStack cloud environment using the following commands. Replace ``DEVSTACK_SOURCE`` with your DevStack source checkout.::

```
(sdk3)E source DEVSTACK_SOURCE/accrc/admin/admin
(sdk3)E .create_yaml.sh
```

Run
***

Functional tests are run against both Python 2 and 3. In order to run the entire functional test suite, run the `tox -e functional` and `tox -e functional3` command inside of your source checkout. This will attempt to run every test command under `/openstack/tests/functional/` in the source tree. You should run the full functional test suite before submitting changes for review in order to avoid unexpected failures in the continuous integration system.::

```
(sdk3)E tox -e functional
...  
   functional: commands succeeded
   congratulations :)
(sdk3)E tox -e functional3
...  
   functional3: commands succeeded
   congratulations :)
```

Examples Tests
--------------

Similar to the functional tests, the examples tests assume that you have a public or private OpenStack cloud that you can run the tests against. In practice, this means that the tests should initially be run against a stable branch of `DevStack <https://docs.openstack.org/devstack/latest/>`. And like the functional tests, the examples tests connect to an OpenStack cloud using `os-client-config <http://git.openstack.org/cgit/openstack/os-client-config/tree/README.rst>`.

See the functional tests instructions for information on setting up DevStack and os-client-config.

Run
***
In order to run the entire examples test suite, simply run the 
``tox -e examples`` command inside of your source checkout. This will attempt to run every test command under ``/openstack/tests/examples/`` in the source tree.::

(sdk3)$ tox -e examples
...
examples: commands succeeded
congratulations :)
openstack/
    connection.py
    resource.py
    compute/
        compute_service.py
        v2/
            server.py
            _proxy.py
tests/
    compute/
        v2/
            test_server.py

How the SDK is organized
========================
The following diagram shows how the project is laid out.

.. literalinclude:: layout.txt

Resource
--------

The `openstack.resource.Resource` base class is the building block of any service implementation. `Resource` objects correspond to the resources each service's REST API works with, so the `openstack.compute.v2.server.Server` subclass maps to the compute service's `https://openstack:1234/v2/servers` resource.

The base `Resource` contains methods to support the typical `CRUD <http://en.wikipedia.org/wiki/Create,_read,_update_and_delete>` operations supported by REST APIs, and handles the construction of URLs and calling the appropriate HTTP verb on the given `Adapter`.

Values sent to or returned from the service are implemented as attributes on the `Resource` subclass with type `openstack.resource.prop`. The `prop` is created with the exact name of what the API expects, and can optionally include a `type` to be validated against on requests. You should choose an attribute name that follows PEP-8, regardless of what
the server-side expects, as this `prop` becomes a mapping between the two.:|

```python
is_public = resource.prop('os-flavor-access:is_public', type=bool)
```

There are six additional attributes which the `Resource` class checks before making requests to the REST API. `allow_create`, `allow_retrieve`, `allow_update`, `allow_delete`, `allow_head`, and `allow_list` are set to `True` or `False`, and are checked before making the corresponding method call.

The `base_path` attribute should be set to the URL which corresponds to this resource. Many `base_path`s are simple, such as `/servers/`. For `base_path`s which are composed of non-static information, Python's string replacement is used, e.g., `base_path = '/servers/%(server_id)s/ips'`.

`resource_key` and `resources_key` are attributes to set when a `Resource` returns more than one item in a response, or otherwise requires a key to obtain the response value. For example, the `Server` class sets `resource_key = "server"` as an individual `Server` is stored in a dictionary keyed with the singular noun, and `resources_key = "servers"` as multiple `Server`s are stored in a dictionary keyed with the plural noun in the response.

Proxy
-----

Each service implements a `Proxy` class, within the `openstack/<program_name>/vX/_proxy.py` module. For example, the v2 compute service's `Proxy` exists in `openstack/compute/v2/_proxy.py`.

This `Proxy` class contains a `~keystoneauth1.adapter.Adapter` and provides a higher-level interface for users to work with via a `~openstack.connection.Connection` instance. Rather than requiring users to maintain their own `Adapter` and work with lower-level `~openstack.resource.Resource` objects, the `Proxy` interface offers a place to make things easier for the caller.

Each `Proxy` class implements methods which act on the underlying `Resource` classes which represent the service. For example:

```python
def list_flavors(self, **params):
    return flavor.Flavor.list(self.session, **params)
```

This method is operating on the `openstack.compute.v2.flavor.Flavor.list` method. For the time being, it simply passes on the `Adapter` maintained by the `Proxy`, and returns what the underlying `Resource.list` method does.
The implementations and method signatures of `Proxy` methods are currently under construction, as we figure out the best way to implement them in a way which will apply nicely across all of the services.

Connection
----------

The `openstack.connection.Connection` class builds atop a `os_client_config.config.CloudRegion` object, and provides a higher level interface constructed of `Proxy` objects from each of the services.

The `Connection` class' primary purpose is to act as a high-level interface to this SDK, managing the lower level connection bits and exposing the `Resource` objects through their corresponding `Proxy` object.

If you've built proper `Resource` objects and implemented methods on the corresponding `Proxy` object, the high-level interface to your service should now be exposed.

```
[local/localrc]
# Configure passwords and the Swift Hash
MYSQL_PASSWORD=DEVSTACK_PASSWORD
RABBIT_PASSWORD=DEVSTACK_PASSWORD
SERVICE_TOKEN=DEVSTACK_PASSWORD
ADMIN_PASSWORD=DEVSTACK_PASSWORD
SERVICE_PASSWORD=DEVSTACK_PASSWORD
SWIFT_HASH=DEVSTACK_PASSWORD

# Configure the stable OpenStack branches used by DevStack
# For stable branches see
# http://git.openstack.org/cgit/openstack-dev/devstack/refs/
CINDER_BRANCH=stable/OPENSTACK_VERSION
CEILOMETER_BRANCH=stable/OPENSTACK_VERSION
GLANCE_BRANCH=stable/OPENSTACK_VERSION
HEAT_BRANCH=stable/OPENSTACK_VERSION
HORIZON_BRANCH=stable/OPENSTACK_VERSION
KEYSTONE_BRANCH=stable/OPENSTACK_VERSION
NEUTRON_BRANCH=stable/OPENSTACK_VERSION
NOVA_BRANCH=stable/OPENSTACK_VERSION
SWIFT_BRANCH=stable/OPENSTACK_VERSION
ZAQAR_BRANCH=stable/OPENSTACK_VERSION

# Enable Swift
enable_service s-proxy
enable_service s-object
enable_service s-containter
enable_service s-account

# Disable Nova Network and enable Neutron
```
disable_service n-net
enable_service q-svc
enable_service q-agt
enable_service q-dhcp
enable_service q-l3
enable_service q-meta
enable_service q-metering

# Enable Zaqar
enable_plugin zaqar https://github.com/openstack/zaqar
enable_service zaqar-server

# Enable Heat
enable_service h-eng
enable_service h-api
enable_service h-api-cfn
enable_service h-api-cw

# Automatically download and register a VM image that Heat can launch
# For more information on Heat and DevStack see
# https://docs.openstack.org/heat/latest/getting_started/on_devstack.html
IMAGE_URL_SITE="http://download.fedoraproject.org"
IMAGE_URL_PATH="/pub/fedora/linux/releases/25/CloudImages/x86_64/images/"
IMAGE_URL_FILE="Fedora-Cloud-Base-25-1.3.x86_64.qcow2"
IMAGE_URLS+=",$IMAGE_URL_SITE$IMAGE_URL_PATH$IMAGE_URL_FILE

# Logging
LOGDAYS=1
LOGFILE=/opt/stack/logs/stack.sh.log
LOGDIR=/opt/stack/logs

1.24 redhat-logos 70.0.3 7.el7

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1.26 http 0.9.8
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1.27 perl-error 0.17020 2.el7

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1.28 elasticsearch-curator 5.5.4

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Contributors:
* Jordan Sissel (jordansissel) (For Logstash, first and foremost)
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* Franois Deppierraz
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* Benjamin Smith (benjaminws)
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* Stuart Warren (stuart-warren)
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Major authors:

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

Brad Fitzpatrick <brad@danga.com> -- maintainer, original implementations

Anatoly Vorobey <mellon@pobox.com> -- lots of the modern server code
Steven Grimm <sgrimm@facebook.com> -- iov writing (less CPU), UDP mode, 
non-2.0 slab mantissas, multithread, ...

Other Contributors
------------------
Evan Martin <evan@danga.com>
Nathan Neulinger <nneul@umr.edu>
Eric Hodel <drbrain@segment7.net>
Michael Johnson <ahze@ahze.net>
Paul Querna <chip@corelands.com>
Jamie McCarthy <jamie@mccarthy.vg>
Philip Neustrom <philipn@gmail.com>
Andrew O'Brien <andrewo@oriel.com.au>
Josh Rotenberg <joshrotenberg@gmail.com>
Robin H. Johnson <robbat2@gentoo.org>
Tim Yardley <liquid@haveheart.com>
Paolo Borelli <paolo.borelli@gmail.com>
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1.38 libpciaccess 0.14 1.el7

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1.39 python-simplegeneric 0.8 7.el7ost

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1.40 mitchellh-mapstructure v1.1.2 3536a92

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1.41 xz-utils 5.2.2.orig

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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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.

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1989
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1.45 python-pycadf-common 2.7.0 1.el7ost
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1.46 pcre 8.32 17.el7

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End
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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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1.48 cachetools 3.0.0

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1.49 perl-text-parsewords 3.29 4.el7

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Will do in next version.

> I found Perl license in Makefile.PL,
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yes

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Alexandr Ciornii, http://chorny.net

1.50 python-inotify 0.9.4 4.el7

1.50.1 Available under license:

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1.51 python2-jmespath 0.9.0 6.el7_7
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1.52 python-itsdangerous 0.23 2.el7
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1.53 docutils 0.14
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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
Name string `json:"name,omitempty"`
URL  string `json:"url,omitempty"`
}

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Gocheck - A rich testing framework for Go

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Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Russell <forfuncake@gmail.com>
David Anderson <danderson@gmail.com>
David Barnett <dbarnett@gmail.com>
David Benjamin <davidben@gmail.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Chase <drchase@gmail.com>
David Covert <davidcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@gmail.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@gmail.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@gmail.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsanske.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dysymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@gmail.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Kitzke <evan@ekitzke.org>
Evan Kroske <evankroske@gmail.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Simoncelli <fismoncelle@redhat.com>
Fedor Indutny <fedor@indutny.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Open Source Used In Cisco VIM 3.4.374

Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Filip Gruszczyski <grusczy@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@octo.com>
Florian Ueckermann <florian@ueckermann-online.de> <f1@ueckermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florian Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscossouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel <fbommel@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal.google.com>
Gabrel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@foursquare.com>
Garrick Evans <garrick@gmail.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gary Elliott <garyelliott@gmail.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Geert-Johan Riemer <gjr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengliang Wang <ltnwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatcenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Open Source Used In Cisco VIM 3.4.3749

Ivan Ukhov <ivan.ukhov@gmail.com>
Ivy Evans <ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcudogan@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbaskin@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguilar@google.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@gmail.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <jljatone@gmail.com>
James Meneghello <rawrzo@gmail.com>
James Myers <jfmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreanor3@gmail.com>
James Tucker <raggi@gmail.com>
James Whitehead <jnwwhiteh@gmail.com>
Jamie Beverly <jamie.r.beverly@gmail.com>
Jamie Gennis <jgennis@gmail.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <jameliu@gmail.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Open Source Used In Cisco VIM 3.4.3752

John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John Newlin <jnewlin@google.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jonas Bernoulili <jonas@bernoul.li>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.githubusercontent.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@gmail.com>
Jonathan Mark <jmark@xenops.com> <jmark000@gmail.com>
Jonathan Nieder <jrn@google.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joop Kiefte <ikoja@gmail.com> <joop@kiefte.net>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Rhee <jordanrh@microsoft.com>
Jos Visser <josv@google.com>
Jose Luis Vazquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelte <joshua.boelter@intel.com>
Joshua Chase <cjoshuachase@gmail.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Open Source Used In Cisco VIM 3.4.3754

Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenji Yano <kenji.yano@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kevin Kirsch <kev.kirsch@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kevin Malachowski <chowski@google.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kevin Zita <bleeddgreenandgold@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraishi <zchee.io@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Luke Granger-Brown <git@lukegb.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Tourn <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manish@google.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@gmail.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius Nuennerich <nnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Harrison <marhar@gmail.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@gmail.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Open Source Used In Cisco VIM 3.4.3760

Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeika <miki.tebeika@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Miroslav Genov <mgenov@gmail.com>
Misty De Meo <mistydeleo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Mura Li <mura_li@castech.com.tw>
Nan Deng <monnand@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Humphreys <nhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanschen@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@google.com>
Nathaniel Cook <nvcook42@gmail.com>
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>
Neel Chandola <neelesh.c98@gmail.com>
Neil Lyons <nwjlyons@googlemail.com>
Neuman Vong <neuman.vong@gmail.com>
Neven Sajko <nsajko@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Peter Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Peter Suryni <speter.go1@gmail.com>
Peter Szab <pts@gmail.com>
Peter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Borgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprietti@gmail.com>
Pierre Rouillon <pierre.rouillon@gmail.com>
Piers <google@hellowpiero.com>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Open Source Used In Cisco VIM 3.4.3765

Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@roblephoenix.com>
Rob Pike <r@golang.org>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robothfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>
Robert Obryk <robryk@gmail.com>
Robert Sesek <ressek@google.com>
Robert Sneedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robclap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfobgibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogpeppe@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandroidshoemaker@gmail.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Shchechin <mrqtrso@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ross Chater <rdchater@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <rosssmithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruui@gmail.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seane@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sebastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Frolov <sfrolov@google.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoening <seth.a.hoening@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@ladoo.net>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stphane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <stuehs@users.noreply.github.com>
Stephen Ma <stephennm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <stephen@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararajan <suriyasa@utoronto.ca>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohi YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <insz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Taesu Pyo <pyotaesu@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <n.nashi@gmail.com>
Takuto Ikuta <tikuta@gmail.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
Thiago Avelino <tavelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeew@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@eht@gmail.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timo Savola <timosavola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Krauser <t klauser@distanz.ch>
Toby Burress <kurin@google.com>
Todd Neal <todd@rneal.org>
Todd Wang <toddwang@gmail.com>
Tom Bergan <tombergan@google.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@google.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <td19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <strey.roessig@gmail.com>
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Tristan Ooohry <ooohry@gmail.com>
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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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rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the 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 @dfn{Lesser} General Public License because it does @emph{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.

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License``). Each licensee is addressed as ``you``.

A ``library`` means a collection of software functions and/or data prepared so as to be conveniently linked with application programs

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Open Source Used In Cisco VIM 3.4.3864
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.

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.

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:

The modified work must itself be a software library.
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
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

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.

@item
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.

@item
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.

@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
to use the modified definitions.)

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.

@item
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.

@item
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.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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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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:

@enumerate a
@item
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.
@item
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.
@end enumerate

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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec 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.

@example
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
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You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@example

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:
@example

Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
@example

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@example

That's all there is to it!

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Version 2, June 1991

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of this license document, but changing it is not allowed.

[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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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, 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 or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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

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

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

d) Verify that the user has already received a copy of these
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Library" must include any data and utility programs needed for
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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<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!

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. <= *=/;  
  print ""
}
```c
#include "defs.h"
#include "command.h"
#include "gdbcmd.h"

static void show_copying_command (char *, int);

static void show_warranty_command (char *, int);

#include "command.h"
#include "gdbcmd.h"

void _initialize_copying (void);

#include "command.h"
#include "gdbcmd.h"

#include "command.h"
#include "gdbcmd.h"

void _initialize_copying (void);
```
print "{";
print "  add_cmd ("copying", no_set_class, show_copying_command,";
print "    _("Conditions for redistributing copies of GDB."),";
print "    &showlist);";
print "  add_cmd ("warranty", no_set_class, show_warranty_command,";
print "    _("Various kinds of warranty you do not have."),";
print "    &showlist);";
print "};

/* For old-timers, allow \"info copying\", etc. */
print "  add_info ("copying", show_copying_command,";
print "    _("Conditions for redistributing copies of GDB."));";
print "  add_info ("warranty", show_warranty_command,";
print "    _("Various kinds of warranty you do not have."));";
print "}";
}

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Version 3, 29 June 2007

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these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
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the Linked Version to produce a modified Combined Work, in the
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a copy of the Library already present on the user's computer
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be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
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products. If such problems arise substantially in other domains, we
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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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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.

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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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doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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```
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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

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" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    continue

                for file in files:
                    if file.endswith(".c") or file.endswith(".cc")
                        continue
                    if file.endswith(".h")
                        continue
                    if file.endswith(".exp")
                        continue
                    if file.endswith(".odc")
                        continue

                    file = os.path.join(root, file)
                    result.append(file)

    return result
 dirs.remove(dircname)

for filename in files:
    relpath = "%s/%s" % (root, filename)
    if (filename in EXCLUDE_ALL_LIST
        or relpath in EXCLUDE_LIST
        or relpath in NOT_FSF_LIST
        or relpath in BY_HAND):
        # Ignore this file.
        pass
    else:
        result.append(relpath)

return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'  
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith("n"):  

line = line[:-1]
if line.endswith(warning_string):
    filename = line[:-warning_len]
    if may_have_copyright_notice(filename):
        print line
else:
    # Unrecognized file format. !?!
    print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
some false positives. I do not think it will return any false
negatives... We might improve this function to handle more
complex cases later...
"""
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50
    fd = open(filename)
    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)
    update_list = get_update_list()
    update_files (update_list)
# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
    for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

############################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/CONTRIBUTE',
    'gdb/gnulib'
)

# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (  
    # These files are sensitive to line numbering.  
    "gdb/testsuite/gdb.base/step-line.inp",  
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.

MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armedefs.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-acfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/ld-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",  
)
if __name__ == "__main__":
    main()

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1.87 python-gobject-base 3.22.0 1.el7_4.1

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That's all there is to it!

1.88 python2-cinderclient 3.5.0 1.el7ost
1.88.1 Available under license:

-------------------
CINDERCLIENT Tests
-------------------

Unit Tests
----------

Cinderclient contains a suite of unit tests, in the cinderclient/tests/unit directory.
Any proposed code change will be automatically rejected by the OpenStack Jenkins server if the change causes unit test failures.

Running the tests
-----------------
There are a number of ways to run unit tests currently, and there’s a combination of frameworks used depending on what commands you use. The preferred method is to use tox, which calls ostestr via the tox.ini file.

To run all tests simply run::

    tox

This will create a virtual environment, load all the packages from test-requirements.txt and run all unit tests as well as run flake8 and hacking checks against the code.

Note that you can inspect the tox.ini file to get more details on the available options and what the test run does by default.

Running a subset of tests using tox
-----------------------------------
One common activity is to just run a single test, you can do this with tox simply by specifying to just run py27 or py34 tests against a single test::

    tox -epy27 -- -n cinderclient.tests.unit.v2.test_volumes.VolumesTest.test_attach

Or all tests in the test_volumes.py file::

    tox -epy27 -- -n cinderclient.tests.unit.v2.test_volumes

For more information on these options and how to run tests, please see the `ostestr documentation <https://docs.openstack.org/os-testr/latest/>`_.

Run tests wrapper script
------------------------
In addition you can also use the wrapper script run_tests.sh by simply executing::

    ./run_tests.sh

This script is a wrapper around the testr testrunner and the flake8 checker. Note that there has been talk around deprecating this wrapper and this method of testing, it's currently available still but it may be good to get used to using tox or even ostestr directly.

Documentation is left in place for those that still use it.
Flags
-----

The `run_tests.sh` script supports several flags. You can view a list of flags by doing:

    run_tests.sh -h

This will show the following help information:

Usage: ./run_tests.sh [OPTION]...

Run cinderclient's test suite(s)

- `V, --virtual-env` Always use virtualenv. Install automatically if not present
- `N, --no-virtual-env` Don't use virtualenv. Run tests in local environment
- `s, --no-site-packages` Isolate the virtualenv from the global Python environment
- `r, --recreate-db` Recreate the test database (deprecated, as this is now the default).
- `n, --no-recreate-db` Don't recreate the test database.
- `f, --force` Force a clean re-build of the virtual environment. Useful when dependencies have been added.
- `u, --update` Update the virtual environment with any newer package versions
- `p, --pep8` Just run PEP8 and HACKING compliance check
- `P, --no-pep8` Don't run static code checks
- `c, --coverage` Generate coverage report
- `d, --debug` Run tests with testtools instead of testr. This allows you to use the debugger.
- `h, --help` Print this usage message
- `--hide-elapsed` Don't print the elapsed time for each test along with slow test list
- `--virtual-env-path <path>` Location of the virtualenv directory
  Default: $(pwd)
- `--virtual-env-name <name>` Name of the virtualenv directory
  Default: .venv
- `--tools-path <dir>` Location of the tools directory
  Default: $(pwd)

Note: with no options specified, the script will try to run the tests in a virtual environment.
If no virtualenv is found, the script will ask if you would like to create one. If you prefer to run tests NOT in a virtual environment, simply pass the -N option.

Because `run_tests.sh` is a wrapper around testr, it also accepts the same flags as testr. See the documentation for details about these additional flags:

`ostestr documentation <https://docs.openstack.org/os-testr/latest/>`_

.. _nose options documentation: http://readthedocs.org/docs/nose/en/latest/usage.html#options

Suppressing logging output when tests fail
------------------------------------------

By default, when one or more unit test fails, all of the data sent to the
logger during the failed tests will appear on standard output, which typically consists of many lines of texts. The logging output can make it difficult to identify which specific tests have failed, unless your terminal has a large scrollback buffer or you have redirected output to a file.

You can suppress the logging output by calling `run_tests.sh` with the nose flag:

```
--nologcapture
```

Virtualenv
---------

By default, the tests use the Python packages installed inside a virtualenv. (This is equivalent to using the `--virtualenv` flag). If the virtualenv does not exist, it will be created the first time the tests are run.

If you wish to recreate the virtualenv, call `run_tests.sh` with the flag:

```
-f, --force
```

Recreating the virtualenv is useful if the package dependencies have changed since the virtualenv was last created. If the `requirements.txt` or `tools/install_venv.py` files have changed, it's a good idea to recreate the virtualenv.

By default, the unit tests will see both the packages in the virtualenv and the packages that have been installed in the Python global environment. In some cases, the packages in the Python global environment may cause a conflict with the packages in the virtualenv. If this occurs, you can isolate the virtualenv from the global environment by using the flag:

```
-s, --no-site packages
```

If you do not wish to use a virtualenv at all, use the flag:

```
-N, --no-virtual-env
```

Gotchas
-------

**Running Tests from Shared Folders**

If you are running the unit tests from a shared folder, you may see tests start to fail or stop completely as a result of Python lockfile issues. You can get around this by manually setting or updating the following line in `cinder/tests/conf_fixture.py`:

```
```
CONF['lock_path'].SetDefault('/tmp')

Note that you may use any location (not just `/tmp`) as long as it is not a shared folder.

.. rubric:: Footnotes

CINDERCLIENT Tests

Functional Tests

Cinderclient contains a suite of functional tests, in the cinderclient/tests/functional directory.

These are currently non-voting, meaning that Jenkins will not reject a patched based on failure of the functional tests. It is highly recommended, however, that these tests are investigated in the case of a failure.

Running the tests

Run the tests using tox, which calls ostestr via the tox.ini file. To run all tests simply run:

    tox -e functional

This will create a virtual environment, load all the packages from test-requirements.txt and run all unit tests as well as run flake8 and hacking checks against the code.

Note that you can inspect the tox.ini file to get more details on the available options and what the test run does by default.

Running a subset of tests using tox

One common activity is to just run a single test, you can do this with tox simply by specifying to just run py27 or py34 tests against a single test:

    tox -e functional -- -n cinderclient.tests.functional.test_readonly_cli.CinderClientReadOnlyTests.test_list

Or all tests in the test_readonly_cli/test_readonly_cli.py file:

    tox -e functional -- -n cinderclient.tests.functional.test_readonly_cli

For more information on these options and how to run tests, please see the ostestr documentation <https://docs.openstack.org/os-testr/latest/>.
Gotchas
-------

The `cinderclient.tests.functional.test_cli.CinderBackupTests.test_backup_create_and_delete` test will fail in Devstack without c-bak service running, which requires Swift. Make sure Swift is enabled when you stack.sh by putting this in local.conf:

```bash
enable_service s-proxy s-object s-container s-account
```

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- Anton Vlasenko <antares.spica __at__ gmail.com>
- Brian J. Crowell <brian __at__ fluggo.com>
- Bryant Mairs <bwmairs __at__ ucsd.edu>
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That's all there is to it!
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f77cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16
xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

1.103 python2-barbicanclient 4.6.1 1.el7ost
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========================================
Contributor Documentation
========================================

.. toctree::
:maxdepth: 2
   
   contributing.rst
   testing.rst
Writing and Running Barbican Client Tests
========================================

As a part of every code review that is submitted to the python-barbicanclient project there are a number of gating jobs which aid in the prevention of regression issues within python-barbicanclient. As a result, a python-barbicanclient developer should be familiar with running python-barbicanclient tests locally.

For your convenience we provide the ability to run all tests through the `tox` utility. If you are unfamiliar with tox please see refer to the `tox documentation` for assistance.

.. _`tox documentation`: https://tox.readthedocs.org/en/latest/

Unit Tests
---------

Currently, we provide tox environments for Python 2.7. By default all available test environments within the tox configuration will execute when calling `tox`. If you want to run them independently, you can do so with the following command:

.. code-block:: bash
# Executes tests on Python 2.7

tox -e py27

.. note::

If you do not have the appropriate Python versions available, consider setting up PyEnv to install multiple versions of Python. See the documentation `setting up a Barbican development environment`<https://github.com/openstack/barbican/blob/master/doc/source/contributor/dev.rst>`_.

.. note::

Individual unit tests can also be run, using the following commands:

.. code-block:: bash

    # runs a single test with the function named
    # test_should_entity_str
    tox -e py27 -- test_should_entity_str

    # runs only tests in the WhenTestingSecrets class and
    # the WhenTestingOrderManager class
    tox -e py27 -- '(WhenTestingSecrets|WhenTestingOrderManager)'

The function name or class specified must be one located in the `barbicanclient/tests` directory.

Groups of tests can also be run with a regex match after the `--`. For more information on what can be done with `testr`, please see: http://testrepository.readthedocs.org/en/latest/MANUAL.html

You can also setup breakpoints in the unit tests. This can be done by adding `import pdb; pdb.set_trace()` to the line of the unit test you want to examine, then running the following command:

.. code-block:: bash

    # Executes tests on Python 2.7
    tox -e debug

    .. note::

    For a list of pdb commands, please see:
    https://docs.python.org/2/library/pdb.html

Functional Tests

-------------
Unlike running unit tests, the functional tests require Barbican and Keystone services to be running in order to execute. For more information on setting up a Barbican development environment <https://github.com/openstack/barbican/blob/master/doc/source/contributor/dev.rst> and using Keystone with Barbican <https://github.com/openstack/barbican/blob/master/doc/source/configuration/keystone.rst>, see our accompanying project documentation.

A configuration file for functional tests must be edited before the tests can be run. In the top-level directory of the python-barbicanclient, edit `/etc/functional_tests.conf` to the values you setup in Keystone.

```
[DEFAULT]
# Leaving this as a placeholder

[keymanager]
# Replace values that represent barbican server and user information
url=http://localhost:9311
username=barbican
password=secretservice
project_name=service
project_id=service
#max_payload_size=10000
project_domain_name=Default

[identity]
# Replace these with values that represent your identity configuration
uri=http://localhost:5000/v2.0
uri_v3=http://localhost:5000/v3
auth_version=v3
username=admin
tenant_name=admin
password=password
domain_name=Default

admin_username=admin
admin_tenant_name=admin
admin_password=password
admin_domain_name=Default

[identity-feature-enabled]
# Leaving this as a placeholder
```
Once you have the appropriate services running and configured you can execute the functional tests through tox.

.. code-block:: bash

    # Execute Barbican Functional Tests
    tox -e functional

By default, the functional tox job will use nosetests to execute the functional tests. This is primarily due to nose being a very well known and common workflow among developers.

.. note::

In order to run individual functional test functions, you must use the following commands:

.. code-block:: bash

    # runs only tests in the test_secrets.py file
    tox -e functional -- client/v1/functional/test_secrets.py

    # runs only tests in the SecretsTestCase class
    tox -e functional -- client/v1/functional/test_secrets.py:
    SecretsTestCase

    # runs a single test with the function named
    # test_secret_create_defaults_check_content_types
    tox -e functional -- client/v1/functional/test_secrets.py:
    SecretsTestCase.test_secret_create_defaults_check_content_types

The path specified must be one located in the `functionaltests` directory.

Remote Debugging

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

In order to be able to hit break-points on API calls, you must use remote debugging. This can be done by adding `import rpdb; rpdb.set_trace()` to the line of the API call you wish to test. For example, adding the breakpoint in `def create` in `barbicanclient.secrets.py` will allow you to hit the breakpoint whenever the `create` function is called.

.. note::

After performing the `POST` the application will freeze. In order to use
``rpdb``, you must open up another terminal and run the following:

.. code-block:: bash

    # enter rpdb using telnet
    telnet localhost 4444

Once in rpdb, you can use the same commands as pdb, as seen here:
https://docs.python.org/2/library/pdb.html

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1.108 python2-oslo-serialization 2.24.0
1.el7ost
1.108.1 Available under license:

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1.109 python-pyasn1 0.1.9 7.el7

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1.110 python2-django 1.11.11 1.el7ost

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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.
If you are new to contributing to Django, the `contributing` tutorial will give you an introduction to the tools and the workflow.

First steps
============

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

  The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

  If an `unreviewed ticket` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

  Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests</internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

  Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`

* **Write some documentation**

  Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on
Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who hasn't spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.
* Be bold! Leave feedback!*

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* Err on the side of caution when marking things Ready For Check-in*

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* Wait for feedback, and respond to feedback that you receive*

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* Be rigorous*

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy-pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ

===

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC
myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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1.117 python2-neutronclient 6.7.0 1.el7ost
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~~~~~~~ Heading 2
++++++++ Heading 3
"""""""" Heading 4
(Avoid deeper levels because they do not render well.)

Contributor Guide

In the Contributor Guide, you will find information on neutronclient's lower level programming details or APIs as well as the transition to OpenStack client.
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~~~~~~~~~ Heading 2
++++++ Heading 3
""""""""""""""""""""""""""" Heading 4
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Transition to OpenStack Client

This document details the transition roadmap for moving the neutron client's OpenStack Networking API support, both the Python library and the `neutron` command-line interface (CLI), to the `OpenStack Client (OSC)` <https://github.com/openstack/python-openstackclient> and the `OpenStack Python SDK` <https://github.com/openstack/python-openstacksdk>.

This transition is being guided by the `Deprecate individual CLIs in favour of OSC` <https://review.openstack.org/#/c/243348/> OpenStack spec. See the `Neutron RFE` <https://bugs.launchpad.net/neutron/+bug/1521291> and `OSC neutron support etherpad` <https://etherpad.openstack.org/p/osc-neutron-support> and details below for the overall progress of this transition.

Overview

This transition will result in the neutron client's `neutron` CLI being deprecated and then eventually removed. The `neutron` CLI will be replaced by OSC's networking support available via the `openstack` CLI. This is
similar to the deprecation and removal process for the
`keystone` CLI. The neutron client's Python library won't be deprecated.
It will be available along side the networking support provided by the
OpenStack Python SDK.

Users of the neutron client's command extensions will need to transition to the
OSC plugin system before the `neutron` CLI is removed. Such users will maintain their OSC plugin
commands within their own project and will be responsible for deprecating and
removing their `neutron` CLI extension.

Transition Steps
--------------

1. **Done:** OSC adds OpenStack Python SDK as a dependency. See the following
   patch set: https://review.openstack.org/#/c/138745/

2. **Done:** OSC switches its networking support for the
   `network` command object to use the OpenStack Python SDK instead of the neutron
   client's Python library. See the following patch set:
   https://review.openstack.org/#/c/253348/

3. **Done:** OSC removes its python-neutronclient dependency.
   See the following patch set: https://review.openstack.org/#/c/255545/

4. **In Progress:** OpenStack Python SDK releases version 1.0 to guarantee
   backwards compatibility of its networking support and OSC updates
   its dependencies to include OpenStack Python SDK version 1.0 or later.
   See the following blueprint: https://blueprints.launchpad.net/python-openstackclient/+spec/network-command-sdk-support

5. **Done:** OSC switches its networking support for the
   `ip floating`, `ip floating pool`, `ip fixed`, `security group`, and
   `security group rule` command objects to use the OpenStack Python SDK instead of the nova
   client's Python library when neutron is enabled. When nova network
   is enabled, then the nova client's Python library will continue to
   be used. See the following OSC bugs:

   * **Done** Floating IP CRUD

---

Open Source Used In Cisco VIM 3.4.31189
6. **In Progress:** OSC continues enhancing its networking support. At this point and when applicable, enhancements to the `neutron` CLI must also be made to the `openstack` CLI and possibly the OpenStack Python SDK. Users of the neutron client's command extensions should start their transition to the OSC plug-in system. See the developer guide section below for more information on this step.

7. **In Progress:** Deprecate the `neutron` CLI. Running the CLI after it has been `deprecated` will issue a warning message:
```
`neutron` CLI is deprecated and will be removed in the future. Use openstack CLI instead.
```
In addition, no new features will be added to the CLI, though fixes to the CLI will be assessed on a case by case basis.

8. **Not Started:** Remove the `neutron` CLI after two deprecation cycles once the criteria below have been met.

* The networking support provide by the `openstack` CLI is functionally equivalent to the `neutron` CLI and it contains sufficient functional and unit test coverage.

* `Neutron Stadium` projects, Neutron documentation and `DevStack` use `openstack` CLI instead of `neutron` CLI.

* Most users of the neutron client's command extensions have transitioned to the OSC plug-in system and use the `openstack` CLI instead of the `neutron` CLI.

Developer Guide
---------------

The `neutron` CLI version 6.x, without extensions, supports over 200 commands while the `openstack` CLI version 3.3.0 supports over 70 networking commands. Of the 70 commands, some do not have all of the options or arguments of their `neutron` CLI equivalent. With this large functional gap, a few critical questions for developers during this transition are "Which CLI do I change?", "Where does my CLI belong?", and "Which Python library do I change?" The answer depends on the state of a command and the state of the overall transition. Details are outlined in the tables below. Early stages of the transition will require dual maintenance.
**Which CLI do I change?**

+----------------------+------------------------+-------------------------------------------------+
| ``neutron`` Command  | ``openstack`` Command  | CLI to Change                                   |
+======================+========================+=================================
+==+==+===+
| Exists               | Doesn't Exist          | ``neutron``                                     |
+----------------------+------------------------+-------------------------------------------------+
| Exists               | In Progress            | ``neutron`` and ``openstack``                   |
|                      |                        | (update related blueprint or bug)               |
+----------------------+------------------------+-------------------------------------------------+
| Exists               | Exists                 | ``openstack``                                   |
|                      |                        | (assumes command parity resulting in            |
|                      |                        | ``neutron`` being deprecated)                   |
+----------------------+------------------------+-------------------------------------------------+
| Doesn't Exist        | Doesn't Exist          | ``openstack``                                   |
+----------------------+------------------------+-------------------------------------------------+

**Where does my CLI belong?**

If you are developing an API in any of the `neutron repos`<http://governance.openstack.org/reference/projects/neutron.html>`_
the client-side support must be generally located in either the openstackclient or neutronclient repos. Whether the actual code goes into one or the other repo it depends on the nature of the feature, its maturity level, and/or the depth of feedback required during the development.

The table below provides an idea of what goes where. Generally speaking, we consider Core anything that is L2 and L3 related or that it has been located in the neutron repo for quite sometime, e.g. QoS or Metering, or that it is available in each neutron deployment irrespective of its configuration (e.g. auto-allocated-topology). Any client feature that falls into this categorization will need to be contributed in OSC. Any other that does not, will need to go into neutronclient, assuming that its server-side is located in a neutron controlled repo. This is a general guideline, when in doubt, please reach out to a member of the neutron core team for clarifications.

+-------------------------------+-------------------+-------------------------------------------------+
| Networking Commands          | OSC Plugin        | OpenStack Project for ``openstack`` Commands    |
+===============================+===================+=================================
+==+==+===+
| Core                          | No                | python-openstackclient                        |
+-------------------------------+-------------------+-------------------------------------------------+
| Extension                     | Yes               | python-neutronclient                          |
| (i.e. neutron stadium)        |                   | (``neutronclient/osc/v2/<extension>``)         |
+-------------------------------+-------------------+-------------------------------------------------+
| Other                         | Yes               | Applicable project owning networking resource  |
+-------------------------------+-------------------+-------------------------------------------------+

When a repo stops being under neutron governance, its client-side counterpart will have to go through deprecation. Bear in mind that for grandfathered extensions like FWaaS v1, VPNaaS, and LBaaS v1, this
is not required as the neutronclient is already deprecated on its own.

**Which Python library do I change?**

<table>
<thead>
<tr>
<th>OpenStack Project for <code>openstack</code> Commands</th>
<th>Python Library to Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>python-openstackclient</td>
<td>python-openstacksdk</td>
</tr>
<tr>
<td>python-neutronclient</td>
<td>python-neutronclient</td>
</tr>
<tr>
<td>Other</td>
<td>Applicable project owning network resource</td>
</tr>
</tbody>
</table>

**Important:** The actual name of the command object and/or action in OSC may differ from those used by neutron in order to follow the OSC command structure and to avoid name conflicts. The `network` prefix must be used to avoid name conflicts if the command object name is highly likely to have an ambiguous meaning. Developers should get new command objects and actions approved by the OSC team before proceeding with the implementation.

The "Core" group includes network resources that provide core `neutron` project features (e.g. network, subnet, port, etc.) and not advanced features in the `neutron` project (e.g. trunk, etc.) or advanced services in separate projects (FWaaS, LBaaS, VPNaaS, dynamic routing, etc.). The "Other" group applies projects other than the core `neutron` project.

Contact the neutron PTL or core team with questions on network resource classification.

When adding or updating an `openstack` networking command to python-openstackclient, changes may first be required to the OpenStack Python SDK to support the underlying networking resource object, properties and/or actions. Once the OpenStack Python SDK changes are merged, the related OSC changes can be merged. The OSC changes may require an update to the OSC openstacksdk version in the `requirements.txt` file.

When adding an `openstack` networking command to python-openstackclient, you can optionally propose an OSC command spec which documents the new command interface before proceeding with the implementation.

Users of the neutron client's command extensions must adopt the OSC plugin which documents the new command interface before proceeding with the implementation.
system for this transition. Such users will maintain their OSC plugin within their own project and should follow the guidance in the table above to determine which command to change.

Developer References

* See `OSC neutron support etherpad <https://etherpad.openstack.org/p/osc-neutron-support>`_ to determine if an ``openstack`` command is in progress.
* See `OSC plugin command list <https://docs.openstack.org/python-openstackclient/latest/cli/plugin-commands.html>`_ to determine if an ``openstack`` plugin command exists.
* See `OSC command structure <https://github.com/openstack/python-openstackclient/blob/master/doc/source/cli/commands.rst>`_ to determine the current ``openstack`` command objects, plugin objects and actions.
* See `OSC plugin <https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/plugins.rst>`_ for information on the OSC plugin system to be used for ``neutron`` CLI extensions.
* Create an OSC blueprint: https://blueprints.launchpad.net/python-openstackclient/
* Report an OSC bug: https://bugs.launchpad.net/python-openstackclient/+filebug
* Report an OpenStack Python SDK bug: https://bugs.launchpad.net/python-openstacksdk/+filebug

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~~~~~~ Heading 2
+++++++ Heading 3
~~~~~ Heading 4
(Avoid deeper levels because they do not render well.)

Client command extension support

The client command extension adds support for extending the neutron client while
considering ease of creation.

Extensions strongly conform to preexisting neutron commands (/neutron/v2_0/).

A sample extension can be seen at:
neutronclient/neutron/v2_0/contrib/_fox_sockets.py

Minimum requirements from an extension

----------------------------------------
* NeutronClientExtension subclasses must have a shell_command class variable if the command is to be available to the CLI (shell.py)

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsList

Minimum requirements to use canonical neutron CRUD commands framework

Neutron commands are cliff commands, commands in extension can use their own way to finish their tasks. But if they want to make use of the canonical neutron CRUD commands framework, the extension should:

* have a class that subclasses NeutronClientExtension to provide the requisite resource name, version support, and resource collection and object paths for a resource the commands will process.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocket

* have a class that subclasses from the ClientExtensionList to provide resource object list function. This is because most commands need the list function to get object ID via neutronclient.neutron.v2_0.__init__.find_resource_by_id.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsList

* if needed, subclass ClientExtensionUpdate to implement update of the resource object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsUpdate

* if needed, subclass ClientExtensionDelete to implement deletion of the resource object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsDelete

* if needed, subclass ClientExtensionShow to get the detail of the resource object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsShow

Precedence of command loading

* hard coded commands are loaded first
* external commands (installed in the environment) are loaded then

Commands that have the same name will be overwritten by commands that are loaded later. To change the execution of a command for your particular
extension you only need to override the execute method.

Currently this extension support is limited to top-level resources.
Parent/child relationships may be added if desired.

neutronclient.extension entry_point
-----------------------------------

To activate the commands in a specific extension module, add an entry in setup.cfg under neutronclient.extension. For example::

[entry_points]
neutronclient.extension =
    fox_sockets = neutronclient.neutron.v2_0.contrib._fox_sockets

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(Avoid deeper levels because they do not render well.)

CLI Option Guideline
====================

This document describes the conventions of neutron CLI options.

General conventions
-------------------

#. Option names should be delimited by a hyphen instead of a underscore. This is the common guidelines across all OpenStack CLIs.

* Good: ``--ip-version``
* Not Good: `--ip_version`

#. Use at least one required option for `*-create` command. If all options are optional, we typically use `name` field as a required option.

#. When you need to specify an ID of a resource, it is better to provide another way to specify the resource like `name` or other reasonable field.

#. If an attribute name in API is `foo_id`, the corresponding option should be `--foo` instead of `--foo-id`.

* It is because we usually support ID and `name` to specify a resource.

#. Do not use `nargs='?'` without a special reason.

* The behavior of `nargs='?'` option for python argparse is bit tricky and may lead to unexpected option parsing different from the help message. The detail is described in the :ref:`Background section <background-nargs>` below.

#. (option) Avoid using positional options as much as possible.

* Positional arguments should be limited to attributes which will be required in the long future.

#. We honor existing options and should keep compatibilities when adding or changing options.

Options for boolean value
-------------------------

Use the form of `--option-name {True|False}`.

* For a new option, it is recommended.
* It is suggested to use `common.utils.add_boolean_argument` in an implementation. It allows `true/false` in addition to `True/False`.
* For existing options, migration to the recommended form is not necessarily required. All backward-compatibility should be kept without reasonable reasons.

Options for dict value
----------------------

Some API attributes take a dictionary.

`--foo key1=val1,key2=val2` is usually used.

This means `{"key1": "val1", "key2": "val2"}` is passed in the API layer.
Examples:

* `--host-route destination=CIDR,nexthop=IP_ADDR` for a subnet
* `--fixed-ip subnet_id=SUBNET,ip_address=IP_ADDR` for a port.

Options for list value
----------------------

Some attributes take a list.

In this case, we usually use:

* Define an option per element (Use a singular form as an option name)
* Allow to specify the option multiple times

For Example, `**port-create**` has `--security-group` option.
```
--security-group SG1 --security-group SG2``
generates
```
{"security_groups: ["SG1", "SG2"]}``
in the API layer.

This convention applies to a case of a list of dict.
```
--allocation-pool` and `--host-route` for a subnet are examples.

Compatibility with extra arguments
----------------------------------

*extra arguments* supports various types of option specifications.
At least the following patterns needs to be considered when defining
a new option. For more detail, see :ref:`cli_extra_arguments`.

* Normal options with value
* Boolean options : `--foo True`, `--bar=False`
* List options : `--bars list=true val1 val2`, `--bars val1 val2`
* Dict options : `--foo type=dict key1=val1,key2=val2`
* List of Dict options : `--bars list=true type=dict key1=val1, key2=val2, key3=val3, key4=val4`
* `--action=clear`

For normal options with value, there are four patterns to specify an option
as extra arguments.

* `--admin-state-up True` (a space between option name and value)
* `--admin-state-up=True` (= between option name and value)
* `--admin_state_up True` (underscore is used as delimiter)
* `--admin_state_up=True` (underscore is used as delimiter)

.. _background:
There are a lot of opinions on which form of options are better or not. This section tries to capture the reason of the current choice.

Use at least one required option
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

As a convention, **neutron** CLI requires one required argument.

If all options are optional in the API level and we have ``name`` field, we usually use ``name`` as a required parameter. Requiring at least one argument has the following benefits:

* If we run ``neutron *-create`` without a required argument, we will have a brief help message without detail option help. It is convenient.
* We can avoid miss operation by just hitting ``neutron *-create``. Requiring at least one parameter is a good balance.

Even though we can change this convention to allow to create a resource without ``name`` field, it will bring confusions to existing users.

There may be opinion that it is inconsistent with API level requirement or Horizon behavior, but even if neutron CLI requires ``name`` field there is no bad impact on regular users. Considering possible confusion if we change it, it looks better to keep it as-is.

Options for Boolean value
~~~~~~~~~~~~~~~~~~~~~~~~~~

* ``--enable-foo``/``--disable-foo`` or similar patterns (including ``--admin-state-down``) is not suggested because we need two exclusive options for one attribute in REST API. It is meaningless.

* It is not recommended to have an option only to specify non-default value. For example, we have ``--shared`` or ``--admin-state-down`` options for net-create. This form only works for ``*-create`` and does not work for ``*-update``. It leads to having different options for ``*-create`` and ``*-update``.

* A flag option like ``--enable-dhcp`` (without value) also has a problem when considering the compatibility with *extra argument*. We can specify ``--enable-dhcp=0`` or ``--enable-dhcp=True/False`` in the *extra argument* mechanism. If we introduce ``--enable-dhcp`` (without value), the form of ``--enable-dhcp=True/False`` cannot be used now. This is another reason we don't use a flag style option for a boolean parameter.

.. _background-nargs:
Avoid using nargs in positional or optional arguments

The behavior of `nargs='?'` option for python argparse is bit tricky. When we use `nargs='?'` and if the order of command-line options is changed then the command-line parser may fail to parse the arguments correctly. Two examples of such failures are provided below.

Example 1:
This example shows how the actual behavior can differ from the provided help message. In the below block, help message at `[5]` says `--bb CC` is a valid format but the argument parsing for the same format fails at `[7]`.

```console
In [1]: import argparse
In [2]: parser = argparse.ArgumentParser()
In [3]: parser.add_argument('--bb', nargs='?')
In [4]: parser.add_argument('cc')

In [5]: parser.print_help()
usage: ipython [-h] [--bb [BB]] cc

positional arguments:
   cc

optional arguments:
   -h, --help  show this help message and exit
   --bb [BB]

In [6]: parser.parse_args('--bb 1 X'.split())
Out[6]: Namespace(bb='1', cc='X')

In [7]: parser.parse_args('--bb X'.split())
usage: ipython [-h] [--bb [BB]] cc
ipython: error: too few arguments
An exception has occurred, use %tb to see the full traceback.

SystemExit: 2
```

Example 2:
This example shows how fragile `nargs='?'` can be when user specifies options in different order from the help message.

```console
```
In [1]: import argparse
In [2]: parser = argparse.ArgumentParser()
In [3]: parser.add_argument('--a', help='option a')
In [4]: parser.add_argument('--b', help='option b')
In [5]: parser.add_argument('x', help='positional arg X')
In [6]: parser.add_argument('y', nargs='?', help='positional arg Y')
In [7]: parser.print_help()
usage: ipython [-h] [--a A] [--b B] x [y]

positional arguments:
  x       positional arg X
  y       positional arg Y

optional arguments:
  -h, --help show this help message and exit
  --a A   option a
  --b B   option b

In [8]: parser.parse_args('--a 1 --b 2 X Y'.split())
Out[8]: Namespace(a='1', b='2', x='X', y='Y')

In [9]: parser.parse_args('X Y --a 1 --b 2'.split())
Out[9]: Namespace(a='1', b='2', x='X', y='Y')

In [10]: parser.parse_args('X --a 1 --b 2 Y'.split())
usage: ipython [-h] [--a A] [--b B] x [y]
ipython: error: unrecognized arguments: Y
An exception has occurred, use %tb to see the full traceback.

SystemExit: 2

To exit: use 'exit', 'quit', or Ctrl-D.
To exit: use 'exit', 'quit', or Ctrl-D.

Note: Most CLI users don't care about the order of the command-line options. Hence, such fragile behavior should be avoided.

1.118 trousers 0.3.14 2.el7
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1.119 yum 3.4.3 161.el7

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```python
diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
     A single update notice (for instance, a security fix).
     
-    def __init__(self, elem=None):
+    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from' : '',
            'type' : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
             self._parse(elem)

+    def __init__(self, elem=None, repoid=None, vlogger=None):
+        self._repoid = repoid
+        self._vlogger = vlogger
+
+    def __getitem__(self, item):
+        """ Allows scriptable metadata access (ie: un['update_id']). ""
        if type(item) is int:
@ @ -103,6 +106,24 @@ class UpdateNotice(object):
            # Tests to see if it's "the same data", which means that the
            # packages can be different (see add_notice).
```
+ def _rid(un):
+     if hasattr(un, '_repoid') and un._repoid is not None:
+         return un._repoid
+     else:
+         return '<unknown>'
+
+ def _log_failure(data):
+     """Log the mismatched data similarly to conflict markers in git."""
+     if self._vlogger is None:
+         return
+     msg = _('Duplicate of %s differs in some fields:
')
+     msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+     msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+     msg += '>>>>>>> %s:%s' % (_rid(self), data)
+     # --verbose mode enables this
+     self._vlogger.log(logging.levels.DEBUG_3, msg)
+
+     if not other or not hasattr(other, '_md'):
+         return False

@@ -113,6 +134,7 @@ class UpdateNotice(object):
+     if data == 'status': # FIXME: See below...
+         continue
+     if self._md[data] != other._md[data]:
+         _log_failure(data)
+         return False
+ # FIXME: Massive hack, Fedora is really broken and gives status=stable
+ # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
+     if self._md[data] != other._md[data]:
+         if self._md[data] not in ('stable', 'testing'):
+             _log_failure(data)
+             return False
+         if other._md[data] not in ('stable', 'testing'):
+             _log_failure(data)
+             return False
+ # They are both really "stable" ...
+     self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
+     for event, elem in safe_iterparse(infile, logger=self._logger):
+         if elem.tag == 'update':
+             try:
+                 un = UpdateNotice(elem)
+                 un = UpdateNotice(elem, repoid, self._vlogger)
+             except UpdateNoticeException, e:
+                 msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
    msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
    _rid(repoid))
    if not have_dup:
+    msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%s")
+    msg += _("If you are the owner, consider re-running the same command with --verbose to see the ‘
    have_dup = True
    if self._vlogger:
        self._vlogger.warn("%s", msg)

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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
 except Errors.RepoMDError:
     continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """ Return all notices. """
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
             name = oldpkgtup[0]
             arch = oldpkgtup[1]
             ret = []
+            other_arch_list = []
+            notices = set()
+            for notice in self.get_notices(name):
+                for upkg in notice['pkglist']:
+                    for pkg in upkg['packages']:
+                        other_arch = False
+                        if pkg['name'] != name or pkg['arch'] != arch:
+                            continue
+                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                            other_arch = True
+                        else:
+                            continue
+                        pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                  pkg['version'], pkg['release'])
+                        if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                            continue
-                    ret.append((pkgtup, notice))
if other_arch:
    other_arch_list.append((pkgtup, notice))
else:
    ret.append((pkgtup, notice))
    notices.add(notice)
for pkgtup, notice in other_arch_list:
    if notice not in notices:
        ret.append((pkgtup, notice))
ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
    import logginglevels
    from rpmUtils.arch import ArchStorage

    def safe_iterparse(filename, logger=None):

1.120 python2-os-service-types 1.1.0 1.el7ost
1.120.1 Available under license:

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
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1.122 alsa-tools-firmware 1.1.0 1.el7

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* Aaron Stone <aaron@serendipity.cx>
* Adam Esterline <adam@esterlines.com>
* Alexander Sandstrm <alexander@skovik.com>
* Andrew Katz <andrew.katz@outright.com>
* Andy Delcambre <adelcambre@gmail.com>
* Anshul Khandelwal <anshul@anshulkhandelwal.com>
* Ash Wilson <smashwilson@gmail.com>
* Ben Burkert <ben@benburkert.com>
* Benedikt Bhm <bb@xnull.de>
* Bo Jeanes <me@bjeanes.com>
* Brandur <brandur@mutelight.org>
* Brian D. Burns <iosctr@gmail.com>
* Brian Hartsock <brian.hartsock@gmail.com>
* Bryan Paxton <starbelly@pobox.com>
* Caio Chassot <dev@caiochassot.com>
* Caius Durling <dev@caius.name>
* Carl Horberg <carl.hoerberg@gmail.com>
* Carl Hrberg <carl.hoerberg@gmail.com>
* Carlos Sanchez <csanchez@maestrodev.com>
* Casper Thomsen <ct@clearhaus.com>
* Chris Hanks <christopher.m.hanks@gmail.com>
* Claudio Poli <masterkain@gmail.com>
* Damien Mathieu <damien@heroku.com>
* Dan Hensgen <dan@methodhead.com>
* Dan Peterson <dpiddy@gmail.com>
* Dan Prince <dprince@redhat.com>
* Dane Harrigan <dane.harrigan@gmail.com>
* Dave Myron <therealdaive.myron@gmail.com>
* Dave Newton <davelnewton@gmail.com>
* David Biehl <dbiehl@ncmedical.com>
* David Biehl <lazylodr@gmail.com>
* Dimitrij Denissenko <dimitrij@blacksquaremedia.com>
* Dominik Richter <dominik.richter@gmail.com>
* Doug McInnes <doug@dougmcinnes.com>
* Eugene Howe <eugene@xtreme-computers.net>
* Evan Phoenix <evan@fallingsnow.net>
* Fabian Wiesel <fabian.wiesel@sap.com>
* Federico Ravasio <ravasio.federico@gmail.com>
* Glenn Pratt <glennpratt@gmail.com>
* Graeme Nelson <graeme.nelson@gmail.com>
* Guillaume Balaine <igosuki@gmail.com>
* Hakan Ensari <hakan.ensari@papercavalier.com>
* Ian Neubert <ian@ianneubert.com>
* Jacob Atzen <jacob@incremental.dk>
* James Cox <james@imaj.es>
* James Watling <watling.james@gmail.com>
* Jean Mertz <jean@mertz.fm>
* Jeremy Hinegardner <jeremy@copiousfreetime.org>
* Jesse Kempf <jesse.kempf@opower.com>
* Joe Rafaniello <jrafanie@redhat.com>
* John Keiser <jkeiser@opscode.com>
* John Leach <john@brightbox.co.uk>
* Jonas Pfenniger <jonas@pfenniger.name>
* Jonathan Dance <github@wuputah.com>
* Jonathan Dance <jd@wuputah.com>
* Jonathan Roes <jroes@jroes.net>
* Joshua B. Smith <jbsmith@us.ibm.com>
* Joshua Gross <joshua@surfeasy.com>
* Joshua Mckinney <joshmckin@gmail.com>
* Joshua Napoli <jnapoli@swipely-napoli.home>
* Joshua Napoli <jnapoli@swipely-napoli.local>
* Kelly Mahan <kmahan@kmahan.com>
* Kensuke Nagae <kyanny@gmail.com>
* Konstantin Shabanov <etehtsea@gmail.com>
* Kyle Rames <kyle.rames@rackspace.com>
* Lewis Marshall <lewis@lmars.net>
* Lincoln Stoll <me@lstoll.net>
* Louis Sobel <sobel@mit.edu>
* Mahemoff <michael@mahemoff.com>
* Mathias Meyer <meyer@paperplanes.de>
* Matt Gauger <matt.gauger@gmail.com>
* Matt Sanders <matt@modal.org>
* Matt Sanders <matt@polycot.com>
* Matt Snyder <snyder2112@me.com>
* Matt Todd <chiology@gmail.com>
* Max Lincoln <max@devopsy.com>
* Michael Brodhead <mkb@engineyard.com>
* Michael Hale <mike@hales.ws>
* Michael Rowe <mrowe@mojain.com>
* Michael Rykov <mrykov@gmail.com>
* Mike Heffner <mikeh@fesnel.com>
* Myron Marston <myron.marston@gmail.com>
* Nathan Long <nathan.long@tma1.com>
* Nathan Sutton <nate@zencoder.com>
* Nick Osborn <nick.osborn@digital.cabinet-office.gov.uk>
* Nicolas Sanguinetti <contacto@nicolassanguinetti.info>
* Paul Gideon Dann <pdgiddie@gmail.com>
* Pavel <pavel.evst@gmail.com>
* Peter Meier <peter.meier@immerda.ch>
* Peter Weldon <peter.weldon@null.net>
* Peter Weldon <peter@lautus.net>
* Phil Ross <phil.ross@gmail.com>
* Richard Ramsden <richard@rramsden.ca>
* Ruslan Korolev <rs3@fastmail.com>
* Ruslan Korolev <rs41@gmx.com>
* Ruslan Kyrychuk <ruslan.kyrychuk@gmail.com>
* Ryan Bigg <radarlistener@fastmail.fm>
* Ryan Mohr <ryan.mohr@gmail.com>
* Sam Withrow <sam.withrow@curiousnation.org>
* Scott Gonyea <me@curiousnation.org>
* Scott Gonyea <me@gonyea.com>
* Scott Walkinshaw <scott.walkinshaw@gmail.com>
* Sean Cribbs <seancribbs@gmail.com>
* Sergio Rubio <rubiojr@frameos.org>
* Shai Rosenfeld <shaiguitar@gmail.com>
* Stefan Merettig <stefan-merettig@nuriaproject.org>
* Stephen Chu <github@stephenchu.com>
* Swanand Pagnis <swanandp@users.noreply.github.com>
* Terry Howe <terrylhowe@gmail.com>
* Thom Mahoney & Josh Lane <tmahoney@engineyard.com>
* Thom May <thom@digital-science.com>
* Tim Carey-Smith <tim@spork.in>
* Todd Lunter <tlunter@gmail.com>
* Tom Maher <tmaher@heroku.com>
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1.137 ipvsadm 1.27 7.el7
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ipvsadm - Version 1.14 - 11th January 2001

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ipvsadm is a utility to administer the IP virtual server services offered by the Linux kernel with IP virtual server support.
This version of ipvsadm requires IPVS module v0.0.5 for kernel 2.4 or later. Check out the Linux Virtual Server Project home page on the World Wide Web:
http://www.LinuxVirtualServer.org/
or
http://www.Linux-VS.org/
for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and "make menuconfig" or "make xconfig" to setup the right compiling options, see the README of the virtual server patch for detail, then simply type make in the source directory.

Install to your liking. We suggest the following pathnames:
/sbin/ipvsadm
/usr/man/man8/ipvsadm.8
This will be done automatically when calling make install in the source directory.

Wensong Zhang <wensong@linuxvirtualserver.org>

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1.138 python-redis 2.10.3 3.el7ost
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1.139 dwz 0.11 3.el7

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Version 3.1, 31 March 2009

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1.140 python-kombu 4.0.2 5.el7ost

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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For the server\util_md5.c component:

/************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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************************************************************************
*/

/* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code */

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*/

/*
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# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)
*/

For the expat xml parser component:

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<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
<link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.js" type="text/javascript"></script>
<link href="./images/favicon.ico" rel="shortcut icon" />
<head>!---
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
<link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.js" type="text/javascript"></script>
</head>
<body id="manual-page" class="no-sidebar">
<div id="page-header">
<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.gif" />
</div>
<div id="path">
</div>
<p class="centered">Apache License, Version 2.0<br />
Version 2.0, January 2004<br />
<a href="http://www.apache.org/licenses/">http://www.apache.org/licenses/</a><br />
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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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| o Scheduler framework extension to support
  child process handling.
| o Daemon framework extension to block SIGCHLD
to only receive it when its unblocked in the
  scheduling select loop.
Jeremy Rumpf, <rumpf.6@osu.edu>:
- Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
- Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
- Fixed shadowed declaration reported by -Wshadow.
- Redesigned signal handling.

Nick Couchman, <nick.couchman@seakr.com>:
- Patch for u_threshold and l_threshold support.

Willy Tarreau, <w@1wt.eu>:
- Extended VRRP framework to support floating priority.

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In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:
1.165 python-crypto 2.6.1 16.el7ost

1.165.1 Available under license:

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

===================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
===================================================================
Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
  for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
  Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
  for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
  Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
  Delivered-To: m-dlitz-dlitz@dlitz.net
  Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
  Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
    by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
  for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
  Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
    by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
  for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flopped; delsp=yes
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important Python library.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgPeCG+JdZwNvPJRFsa6rhY6+MHLDHI6agk
evkJnSJQAcVHIznVIeR5IXgvDUMakZjU4SOV7MqkhSA91te7Pa9VSYgn3ra5
gElwI2DQDoOy5GExXMn74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7
SK4w9VBIfTrY=3D
=3DQduY
-----END PGP SIGNATURE-----

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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warranty of fitness for use or suitability for any purpose, express
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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

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> > I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
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> > ==============================================================
> > 
> > Regards,
> > - Dwayne
> > 
> > --
> > Dwayne C. Litzenberger <dlitz@dlitz.net>
> > Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
> 
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
for Google AppsEngine!
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> > ==================================================================================
> 
> Regards,
> Joris
> 
> Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:
> 
>> Hi Joris,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
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>> dissemination and usage except those imposed by the laws of your
>> country of residence. This software is provided "as is" without
>> warranty of fitness for use or suitability for any purpose, express
>> or implied. Use at your own risk or not at all.
>>
>> Incorporating the code into commercial products is permitted; you do
Open Source Used in Cisco VIM 3.4.31537

>> not have to make source available or contribute your changes back
>> (though that would be nice).
>>
>> --amk                                                    (www.amk.ca)
>>
>> For the next PyCrypto release, I would like to take steps to move toward a
>> clearer licensing regime. I am asking as many copyright holders as I can
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>>
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>>
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>> is granted a worldwide, perpetual, royalty-free, non-exclusive license
>> to exercise all rights associated with the contents of this file for
>> any purpose whatsoever. No rights are reserved.
>> =======================================================================
>>
>> Regards,
>> - Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1
Open Source Used In Cisco VIM 3.4.31538

On November 23, 2008, you wrote:

> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
>
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSsnAl8UnN8o93LiBAQL-p/gQAh7x8Av1mstc2kxSJEDWThm26PTAZxMz4B
FektbDOzkgc5580MGGeE6X/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKya
J/Mn/l+6ekjQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOKoBx+/5t1lJjtBcZ
wrPEa9Oui9s=
=2SY9
-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting
code to PyCrypto must be able to certify the following (taken from the Linux
kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:
(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

--- EOF ---
00INDEX                 - This file
tsu-notify.mbox         - Notification sent per U.S. export regulations
copy/                   - Copyright info & public-domain dedications
From dlitz@dlitz.net Sun Aug  2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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--amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> Hi Paul,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0I, on your behalf, dedicate to the pub= 1c
> domain all your contributions to PyCrypto, with the following notice?
> 
> Yes, that's fine.  Good luck with the new release!
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
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>That's great!
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Hi Jeethu,

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
Hi Dwayne,

My contribution to PyCrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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Regards,

- Dwayne
Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256 module, IRC).</div><div>I'd be fine with the public domain license for PyCrypto.</div><div><br></div><div>Jeethu Rao</div><div>PS: Apologies for the delay in my response.</div><div>I don't really check this email address all that often.</div><div><br></div>
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk  
(<a href="http://www.amk.ca" target="_blank">www.amk.ca</a>)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Poin ter, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,

Dwayne

--

Dwayne C. Litzenberger &lt;dlitz@dlitz.net&gt;&lt;dlitz@dlitz.net&gt;
Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.
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Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> 
> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?
> 
> =
In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZD01gACgkQQQDkKvyJ6cOLvQCfQmYyVODvIllyLg0hgCI9LAbQ
SH8AoLJgaq1li7/ZYDc+/Cd8VO0xLbr
=Mvcg
-----END PGP SIGNATURE-----

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It
says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

--amk                  (www.amk.ca)

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Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all
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extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.

Regards,
   - Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Hi Dwayne.
Sure, the new license sounds fine for all my contributions to Pyrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,

> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
>
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
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> Distibute and use freely; there are
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> country of residence. This
> software is provided "as is" without
> warranty of fitness for use or
> suitability for any purpose, express
> or implied. Use at your own risk or
> not at all.

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--amk

(www.amk.ca)

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Regards,

- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
>Hi Dwayne.
>
>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
>
>Regards,
>Mark.
>
>--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
>
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Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

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```
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       to exercise all rights associated with the contents of this file for
       any purpose whatsoever. No rights are reserved.
======================================================================

Regrets,
- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
00INDEX This file
LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit
LICENSE.libtom LICENSE file from LibTomCrypt
stmts/ Statements by contributors
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.co.uk (m14.itconsult.co.uk [193.201.42.13])
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
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[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net
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client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
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by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)
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id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline

Open Source Used In Cisco VIM 3.4.3.1560
-----BEGIN PGP SIGNED MESSAGE-----

# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
#

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger

"Open Source Used In Cisco VIM 3.4.31561"
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 05209788

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=3oIX
-----END PGP SIGNATURE-----

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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<th>Release</th>
<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
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<td>PSF</td>
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</tr>
<tr>
<td>2.2.2</td>
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<td>2002</td>
<td>PSF</td>
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<td>2.2.2</td>
<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

### B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

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

**PSF LICENSE AGREEMENT FOR PYTHON 2.2.3**

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

---

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From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500

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Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
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--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
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Other contributors include:
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Tollef Fog Heen <tfheen@debian.org>
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
#ident "@(#)/bsd-os3.def1.2 06/05/14 "
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#include $(SRCROOT)/$(RULESDIR)/rules.prg
#include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul

OSDEFS +=
CPPOPTS=-I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)
KDEFINES=-DKERNEL -D_KERNEL

#COPTDYN=-fpic
COPTDYN=

LIB_PREFIX=lib
LIB_SUFFIX=.a
#SHL_SUFFIX=.so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH=-lm
LIB_KVM=

#LDOPTS=$(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=W1,-R%)
LDOPTS=$(LIBS_PATH) $(LDPATH)
#LDOPTDYN=shared -Wl,-soname,$(TARGET)
#LNDYNLIB=@$(RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET)
LDOPTDYN=
LNDYNLIB=

#shlicc2 is not present on older or newer systems
#LDCC=@echo "==> LINKING "$@""; shlicc2
LDCC=@echo "==> LINKING "$@""; shlicc
#DYNLDLD=@echo "==> LINKING dynamic library "$@""; gcc
DYNLDLD=
RANLIB=@echo "==> RANDOMIZING ARCHIVE "$@""; ranlib
#ident "@(#)i386-bsd-os-gcc.rul.1.14 07/05/09 

###########################################################################
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# Platform dependent MACROS for BSD/OS
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include $(SRCROOT)/$(RULESDIR)/rules.prg
include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul
OSDEFS +=
CPPPOPTS=I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)
KDEFINES=-DKERNEL -D_KERNEL

#COPTDYN=-fPIC
COPTDYN=
LIB_PREFIX=lib
LIB_SUFFIX=.a
#SHL_SUFFIX=.so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH=-lm
LIB_KVM=

#LDOPTS=$(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=-Wl,-R%)
LDOPTS=$(LIBS_PATH) $(LDPATH)
#LDOPTDYN=shared -Wl,-soname,$(TARGET)
#LNDYNLIB=TARGET_BASE.so; $(SYMLINK) $(TARGET)
$(PTARGET_BASE).so
LDOPTDYN=
LNDYNLIB=
RANLIB=@echo "==> RANDOMIZING ARCHIVE \"$@\""; ranlib
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Support shell scripts for the Schily Makefile system (CDDL)

DEFAULTS/
Default files for the Schily Makefile system (CDDL)

DEFAULTS_ENG/
Default files for the Schily Makefile system (CDDL)

inc/
Support C-Files for the Schily Makefile system (CDDL)

include/
Support H-Files for the Schily Makefile system (CDDL)

RULES/
The main part of the Schily Makefilesystem (CDDL)

TARGETS/
Slot support for the Schily Makefile system (CDDL)

TEMPLATES/
Template support for the Schily Makefile system (CDDL)

For more information on the CDDL read the file CDDL_Schily.txt
For more information on the GPL read the file GPL-2.0.txt
For more information on the LGPL read the file LGPL-2.1.txt

###########################################################################
# global definitions for BSD/OS Systems
#
###########################################################################
# Compiler stuff
#
###########################################################################
#DEFCOM=cc
DEFCOM=gcc

###########################################################################
# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
DEFLINKMODE=static

DEFINCDIRS=$(SRCROOT)/include
#LDPATH=-L/opt/schily/lib
#RUNPATH=-RS(INS_BASE)/lib -R/opt/schily/lib -RS(OLIBSDIR)Will probably not work

# Installation config stuff
#
#DEFUMASK=002
#DEFINSMODEF=444
#DEFINSMODEX=755
#DEFINSUSR=root
#DEFINSGRP=bin
#ident "@(#)os-bsd-os.id 1.3 06/05/14 "

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OS specific MACRO definitions for BSD/OS
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#
###########################################################################
_O_ARCH=$(OSREL:3.%=bsd-os3)
O_ARCH=$(O_ARCH:4.%=bsd-os)
-O_ARCH=-$(O_ARCH)
#ident "@(#)Defaults.bsd-os3 1.4 08/12/26 "
###########################################################################
#
# global definitions for BSD/OS Systems
#
###########################################################################
#
# Compiler stuff
#
###########################################################################
#DEFCCOM=cc
DEFCCOM=gcc
###########################################################################
#
# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
#
###########################################################################
DEFLINKMODE=static
###########################################################################
#
# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#
###########################################################################
#CWARNOPTS=
#DEFINCDIRS=$(SRCROOT)/include
#LDPATH=-L/opt/schily/lib
#RUNPATH=-R$(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR)Will probably not work
###########################################################################
#
# Installation config stuff
#
###########################################################################
#INS_BASE=/opt/schily
#INS_KBASE=/
#INS_RBASE=/
INS_BASE=/tmp/schily
INS_KBASE=/tmp/schily/root
INS_RBASE=/tmp/schily/root

# DEFUMASK=002
#
DEFINSMODEF=444
DEFINSMODEX=755
DEFINSUSR=root
DEFINSGRP=bin

#ident @(#)man-bsd.def 1.2 06/05/14

###########################################################################
# Written 1997 by J. Schilling
###########################################################################
#
# Definition for manual sections on BSD based systems
#
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###########################################################################

MANSECT_CMD=man1
MANSECT_SYSCALL=man2
MANSECT_LIB=man3
MANSECT_FILEFORM=man5
MANSECT_HDR=man7
MANSECT_TABLES=man7
MANSECT_MACROS=man7
MANSECT_GAMES=man6
MANSECT_DEMOS=man6
MANSECT_DEVICE=man4
MANSECT_NETWORK=man4
MANSECT_ADMIN=man8
MANSECT_DRIVER=man4
MANSUFF_CMD=1
MANSUFF_SYSCALL=2
MANSUFF_LIB=3
MANSUFF_FILEFORM=5
MANSUFF_HDR=7
MANSUFF_TABLES=7
MANSUFF_MACROS=7
MANSUFF_GAMES=6
MANSUFF_DEMOS=6
MANSUFF_DEVICE=4
MANSUFF_NETWORK=4
MANSUFF_ADMIN=8
MANSUFF_DRIVER=4

#ident "@(#)Defaults.bsd-os 1.4 08/12/26"

# global definitions for BSD/OS Systems
#

# Compiler stuff
#

# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
#

DEFLINKMODE=static

# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#

CWARNOPTS=

DEFINCDIRS=$(SRCROOT)/include
#LDPATH=-L/opt/schily/lib
#RUNPATH=-R$(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR)Will probably not work

DEFCCOM=gcc
# Installation config stuff
#
###########################################################################
INS_BASE=/opt/schily
INS_KBASE=/
INS_RBASE=/
#
DEFUMASK=002
#
DEFINSMODEF=444
DEFINSMODEX=755
DEFINSUSR=root
DEFINSGRP=bin
#ident "@(#)i386-bsd-os3-cc.rul.1.12 07/05/09 "
###########################################################################
# Written 1998 by J. Schilling
###########################################################################
#
# Platform dependent MACROS for BSD/OS
#
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# file and include the License file CDDL.Schily.txt from this distribution.
###########################################################################
include $(SRCROOT)/$(RULESDIR)/rules.prg
###########################################################################
include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul
OSDEFS +=
CPPOPTS=-I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)
KDEFINES=-DKERNEL -D_KERNEL

#COPTDYN=-fpic
COPTDYN=

LIB_PREFIX=lib
LIB_SUFFIX=.a
SHL_SUFFIX=.so.1.0

LIB_SOCKET=
LIB_MATH=-lm
LIB_KVM=

LDOPTS=$(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=-Wl,-R%)
LDOPTDYN=$(LIBS_PATH) $(LDPATH)
LNDYNLIB=\$(RM) \$(RM_FORCE) \$(PTARGET_BASE).so; \$(SYMLINK) \$(TARGET)
LDOPTDYN=
LNDYNLIB=

shlicc2 is not present on older or newer systems
LDCC=\@echo "==> LINKING "$@""; shlicc
LDCC=\@echo "==> LINKING "$@""; shlicc
DYNLDO=\@echo "==> LINKING dynamic library "$@""; gcc
DYNLD=
RANLIB=\@echo "==> RANDOMIZING ARCHIVE "$@""; ranlib

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#include $(SRCROOT)/$(RULESDIR)/rules.prg
###########################################################################
#include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul

OSDEFS +=
CPPPOPTS=-I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)

KDEFINE=--DKERNEL -D_KERNEL

#COPTDYN=-fpic
COPTDYN=

Open Source Used In Cisco VIM 3.4.31608
LIB_PREFIX=lib
LIB_SUFFIX=.a
#SHL_SUFFIX=.so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH=-lm
LIB_KVM=

#LDOPTS=$(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=-Wl,-R%)
LDOPTS=$(LIBS_PATH) $(LDPATH)
#LDOPTDYN=shared -Wl,-soname,$(TARGET)
#LNDYNLIB=@$(RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET) $(PTARGET_BASE).so
LDOPTDYN=
LNDYNLIB=

RANLIB=@echo "==> RANDOMIZING ARCHIVE "$@""); ranlib
#ident "/@(#)Defaults.bsd-os31.4 08/12/26 "
###########################################################################
# global definitions for BSD/OS Systems
#
###########################################################################
# Compiler stuff
#
###########################################################################
#DEFCCOM=cc
DEFCCOM=gcc

###########################################################################
# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
#
###########################################################################
DEFLINKMODE=static

###########################################################################
# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#
###########################################################################
CWARNOPTS=

Open Source Used In Cisco VIM 3.4.31609
DEFINCDIRS=$(SRCROOT)/include
#LDPATH=-L/opt/schily/lib
#RUNPATH=-R$(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR)
Will probably not work

###########################################################################
# Installation config stuff
#
###########################################################################
INS_BASE=/opt/schily
INS_KBASE=/
INS_RBASE=/
#
DEFUMASK=002
#
DEFINSMODEF=444
DEFINSMODEX=755
DEFINSUSR=root
DEFNSGRP=bin

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1.184 ipset 6.38 3.el7_6

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1.185 python-enum 1.0.4 1.el7

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1.186 magiconair-properties v1.8.1 de8848e

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1.187 spf13-afero v1.2.2 588a75e
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1.188 python2-pika-pool 0.1.3 3.1.el7ost

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1.189 bind-libs 9.9.4 74.el7_6.2

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, 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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1.190 python2-keystoneauth1 3.4.0 1.el7ost

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1.191 python2-ironicclient 2.2.2 1.el7ost

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Bug tracker

https://launchpad.net/python-ironicclient

Mailing list (prefix subjects with ``[ironic]`` for faster responses)

http://lists.openstack.org/cgi-bin/mailman/listinfo/openstack-dev

Code Hosting

https://git.openstack.org/cgit/openstack/python-ironicclient

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============================================= python-ironicclient Contributor Documentation

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.. toctree::

   contributing
   testing

.. _testing:

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Testing

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Python Guideline Enforcement

.........................
All code has to pass the pep8 style guideline to merge into OpenStack, to validate the code against these guidelines you can run:

```bash
$ tox -e pep8
```

Unit Testing

```
............
```

It is strongly encouraged to run the unit tests locally under one or more test environments prior to submitting a patch. To run all the recommended environments sequentially and pep8 style guideline run:

```bash
$ tox
```

You can also selectively pick specific test environments by listing your chosen environments after a -e flag:

```bash
$ tox -e py35,py27,pep8,pypy
```

. . note:. .

Tox sets up virtual environment and installs all necessary dependencies. Sharing the environment with devstack testing is not recommended due to conflicting configuration with system dependencies.

Functional Testing

```
.............
```

Functional testing assumes the existence of the script run_functional.sh in the python-ironicclient/tools directory. The script run_functional.sh generates test.conf file. To run functional tests just run ./run_functional.sh.

Also, the test.conf file could be created manually or generated from environment variables. It assumes the existence of an openstack cloud installation along with admin credentials. The test.conf file lives in ironicclient/tests/functional/ directory. To run functional tests in that way create test.conf manually and run:

```bash
$ tox -e functional
```

An example test.conf file:

```ini
[functional]
api_version = 1
os_auth_url=http://192.168.0.2:5000/v2.0/
os_username=admin
os_password=admin
os_project_name=admin
```
If you are testing ironic in standalone mode, only the parameters 'auth_strategy', 'os_auth_token' and 'ironic_url' are required; all others will be ignored.

An example test.conf file for standalone host::

```
[functional]
auth_strategy = noauth
os_auth_token = fake
ironic_url = http://10.0.0.2:6385
```

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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
3a0982da308228d796d35f98d787c5cfd2bb5b6.

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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1.202 vim-common 7.4.160 6.el7_6

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Open Source Used In Cisco VIM 3.4.31809
VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda*  *Uganda*  *copying*  *copyright*  *license*

SUMMARY

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

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.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- 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.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
sources, parts of it or from a modified version. You may use this
license for previous Vim releases instead of the license that they came
with, at your option.

=== 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. Further more, 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
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:
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Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

```vim
if version < 600
" Remove any old syntax stuff hanging around
    syn clear
elseif exists("b:current_syntax")
    finish
endif

" vim:tw=78:ts=8:ft=help:norl:
" 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

if version < 600
" Remove any old syntax stuff hanging around
    syn clear
else 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

    syn match  psfUnquotString +[^"# ][^#]*+ contained
    syn region psfQuotString   start=+"+ skip=+"+ end=+"+ contained

    syn match  psfObjTag    \[\[-_+A-Z0-9a-z\]\]+\[\[-_+A-Z0-9a-z\]\]+ contained
    syn match  psfAttAbbrev   \[\[-_+A-Z0-9a-z\]\]+\[\[-_+A-Z0-9a-z\]\]+ contained
    syn match  psfObjTags    \[\[-_+A-Z0-9a-z\]\]+\[\[-_+A-Z0-9a-z\]\]+ contained

    syn match  psfNumber    \d+ contained
    syn match  psfFloat     \d+\d+ contained
    syn match  psfLongDate  \d+\d+ contained

    syn keyword psfState    available configured corrupt installed transient contained
    syn keyword psfPState   applied committed superseded contained

    syn keyword psfBoolean  false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
```

```

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```
" 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
syn region psfAttUnquotString matchgroup=psfAttrib start=\^\s*[^# \t]+[^# \t]+\^ rs=-e-1
contains=psfUnquotString,psfComment end=-$- keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=\^\s*[^# \t]+[^# \t]+\^ rs=-e-1
contains=psfQuotString,psfComment skip=-\"- matchgroup=psfQuotString end=-\"- keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="\^\s*tag\s+" contains=psfObjTag,psfComment end="$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib
start="\^\s*\{ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|supersedes\|supereceded_by\}\s+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

syn region psfAttTags matchgroup=psfAttrib start="\^\s*all_filesets\s+" contains=psfObjTags,psfComment end="$" keepend

syn region psfAttNumber matchgroup=psfAttrib
start="\^\s*\{compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size\}\s+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib
start="\^\s*\{create_time\|ctime\|mod_time\|mtime\|timestamp\}\s+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib
start="\^\s*\{data_model_revision\|layout_version\}\s+" contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib
start="\^\s*\{install_date\}\s+" contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib
start="\^\s*\{state\}\s+" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib
start="\^\s*\{patch_state\}\s+" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start="\^\s*\{is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse\}\s+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match psfComment ".*$"
" Define the default highlighting. 
" For version 5.7 and earlier: only when not done already 
" For version 5.8 and later: only when an item doesn't have highlighting yet 
if version >= 508 || !exists("did_psf_syntax_inits")
    if version < 508
        let did_psf_syntax_inits = 1
        command -nargs=+ HiLink hi link <args>
    else
        command -nargs=+ HiLink hi def link <args>
    endif
endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"

1.203 libusbx 1.0.21 1.el7
1.203.1 Available under license :
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    Version 2.1, February 1999

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of this license document, but changing it is not allowed.

[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.]
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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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That's all there is to it!

1.204 python-backports 1.0 8.el7
1.204.1 Available under license :
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1.205 mailcap 2.1.41 2.el7
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Tom Callaway, Fedora Legal, Red Hat
Thu Sep 17, 2009

1.206 asn1crypto 0.24.0
1.206.1 Available under license :
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1.207 qemu-img-rhev 2.12.0 33.el7
1.207.1 Available under license :
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*/

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("%s", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___umtx_op, "__umtx_op", "%s(%#x, %d, %d, %x, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)" }, NULL, NULL },
{ TARGET_FREEBSD_NR_execl, "execl", NULL, print_execl, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_execve_file, "execve\"", "%s(\"%s\",%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_execve_link, "execve\"", "%s(\"%s\",%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\",%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\",%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\",%d,\"%s\",%#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "%s(\"%s\",%d,\"%s\",%#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\",%d, %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\",%d, %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)\", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\",%d,\"%s\",%#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags\"", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod\", "%s(%d,%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown\", "%s(%d,%d,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl_file, "ioctl\"", "%s(\"%s\",%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl_link, "ioctl\"", "%s(\"%s\",%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl_set, "ioctl_set\", "%s(%d,%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl_set_file, "ioctl_set\"", "%s(\"%s\",%d,%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl_set_link, "ioctl_set_link", "%s(\"%s\",%d,\"%s\",%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext\", "%s(%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid\", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid\", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh\", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getgroups, "getgroups\", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getgsize, "getgsize\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gethostname, "gethostname\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid\", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getwd, "getwd\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getxattr, "getxattr\", "%s(\"%s\",%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_tmpnam, "tmpnam\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_uname, "uname\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink\", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",%"%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%#p,%#d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rebuot, "rebuot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(\%#x)\", NULL, NULL },
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{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(\%p,\%p)\", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_socket, "socket", "%s(\%d,\%d,\%d)\", NULL, NULL },
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{ TARGET_FREEBSD_NR_stat, "stat", "%s("\"%s\",\%p)\", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("\"%s\",\%p)\", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s("\"%s\",\"%s\")\", NULL, NULL },
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{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(\%d,\%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(\%d,\%d,\%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(\%#x,\%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(\%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(\%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(\%d,\%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(\%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(\%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(\%d,\%#x,\%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(\%d,\%p,\%#x)\", NULL, NULL },

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*
*      @(#)errno.h     8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM            1               /* Operation not permitted */
define TARGET_ENOENT           2               /* No such file or directory */
define TARGET_ESRCH            3               /* No such process */
define TARGET_EINTR            4               /* Interrupted system call */
define TARGET_EIO              5               /* Input/output error */
define TARGET_ENXIO            6               /* Device not configured */
define TARGET_E2BIG            7               /* Argument list too long */
define TARGET_ENOEXEC          8               /* Exec format error */
define TARGET_EBADF            9               /* Bad file descriptor */
define TARGET_ECHILD           10              /* No child processes */
define TARGET_EDEADLK          11              /* Resource deadlock avoided */
   /* 11 was EAGAIN */
define TARGET_ENOMEM           12              /* Cannot allocate memory */
define TARGET_EACCES           13              /* Permission denied */
define TARGET_EFAULT           14              /* Bad address */
define TARGET_ENOTBLK          15              /* Block device required */
define TARGET_EBUSY            16              /* Device busy */
define TARGET_EEXIST           17              /* File exists */
define TARGET_EXDEV            18              /* Cross-device link */
define TARGET_ENODEV           19              /* Operation not supported by device */
define TARGET_ENOTDIR          20              /* Not a directory */
define TARGET_EISDIR           21              /* Is a directory */
define TARGET EINVAL           22              /* Invalid argument */
define TARGET_ENFILE           23              /* Too many open files in system */
define TARGET_EMFILE           24              /* Too many open files */
define TARGET_ENOTTY           25              /* Inappropriate ioctl for device */
define TARGET_ETEXTBSY         26              /* Text file busy */
define TARGET_EFBIG            27              /* File too large */
define TARGET_ENOSPC           28              /* No space left on device */
define TARGET_ESPIPE           29              /* Illegal seek */
define TARGET_EROFS            30              /* Read-only file system */
define TARGET_EMLINK           31              /* Too many links */
define TARGET_EPIPE            32              /* Broken pipe */
  /* math software */
define TARGET_EDOM             33              /* Numerical argument out of domain */
define TARGET_ERANGE           34              /* Result too large */

  /* non-blocking and interrupt i/o */
define TARGET_EAGAIN           35              /* Resource temporarily unavailable */
define TARGET_EWOULDBLOCK      EAGAIN          /* Operation would block */
define TARGET_EINPROGRESS      36              /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ENOTCONN 58 /* Can't send after socket shutdown */
#define TARGET_ETIMEDOUT 59 /* Operation timed out */
#define TARGET_ECONNNREFUSED 60 /* Connection refused */
#define TARGET_ELOOP 61 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 62 /* File name too long */
#define TARGET_EHOSTDOWN 63 /* Host is down */
#define TARGET_EHOSTUNREACH 64 /* No route to host */
#define TARGET_ENOTEMPTY 65 /* Directory not empty */

/* should be rearranged */
#define TARGET_EDQUOT 66 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 67 /* Operation timed out */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EBADRPC 69 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 70 /* Too many references: can't splice */

/* Network File System */
#define TARGET_EPROCLIM 71 /* Too many processes */
#define TARGET_EREMOTES 72 /* Too many levels of remote in path */
#define TARGET_EBADRPC 73 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 74 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */
#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */
#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7

/* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink 10

/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18

/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockopt 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR崧brk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_mincore 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_madvise 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sgsspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138

/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old setsid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312

/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
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#define TARGET_FREEBSD_NR_openat 499
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#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
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GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk
From a1cc5d5a181559a6f68c459cbae8488303112660 Mon Sep 17 00:00:00 2001
From: Kevin Wolf <kwolf@redhat.com>
Date: Fri, 15 Mar 2019 18:10:09 +0100
Subject: [PATCH 013/163] file-posix: Prepare permission code for fd switching

RH-Author: Kevin Wolf <kwolf@redhat.com>
In order to be able to dynamically reopen the file read-only or
read-write, depending on the users that are attached, we need to be able
to switch to a different file descriptor during the permission change.

This interacts with reopen, which also creates a new file descriptor and
performs permission changes internally. In this case, the permission
change code must reuse the reopen file descriptor instead of creating a
third one.

In turn, reopen can drop its code to copy file locks to the new file
descriptor because that is now done when applying the new permissions.

Signed-off-by: Kevin Wolf <kwolf@redhat.com>
(cherry picked from commit 6ceabe6f77e4ae5ac2fa3d2ac1be11dc95021941)
Signed-off-by: Kevin Wolf <kwolf@redhat.com>
Signed-off-by: Miroslav Rezanina <mrezanin@redhat.com>
---
block/file-posix.c | 96 +++++++++++++++++++++++++++++++++++++++++++++++-------
1 file changed, 85 insertions(+), 11 deletions(-)
diff --git a/block/file-posix.c b/block/file-posix.c
index ae16f2f..f0f8eaf 100644
--- a/block/file-posix.c
+++ b/block/file-posix.c
@@ -156,6 +156,7 @@ typedef struct BDRVRawState {
     uint64_t locked_perm;
     uint64_t locked_shared_perm;
+    int perm_change_fd;
     BDRVReopenState *reopen_state;

 #ifdef CONFIG_XFS
 @@ -837,7 +838,8 @@ typedef struct BDRVRawState {
         uint64_t locked_perm;
         uint64_t locked_shared_perm;
+        int perm_change_fd;
     BDRVReopenState *reopen_state;

 static int raw_reconfigure_getfd(BlockDriverState *bs, int flags,
 -        int *open_flags, Error **errp)
 +        int *open_flags, bool force_dup,
 +        Error **errp)
 {
BDRVRawState *s = bs->opaque;
int fd = -1;
#endif

+ if (!force_dup && *open_flags == s->open_flags) { /* We're lucky, the existing fd is fine */
+ return s->fd;
+ }
+
+ if ((*open_flags & ~fcntl_flags) == (s->open_flags & ~fcntl_flags)) {
/* dup the original fd */
fd = qemu_dup(s->fd);
#endif
int fd = -1;
#endif

s->reopen_state = state;
}

Open Source Used In Cisco VIM 3.4.31867
if (s->perm_change_fd) {
    /* In the context of reopen, this function may be called several times
     * (directly and recursively while change permissions of the parent).
     * This is even true for children that don't inherit from the original
     * reopen node, so s->reopen_state is not set.
     * *
     * Ignore all but the first call.
     */
    return 0;
}

if (s->reopen_state) {
    /* We already have a new file descriptor to set permissions for */
    assert(s->reopen_state->perm == perm);
    assert(s->reopen_state->shared_perm == shared);
    rs = s->reopen_state->opaque;
    s->perm_change_fd = rs->fd;
} else {
    /* We may need a new fd if auto-read-only switches the mode */
    ret = raw_reconfigure_getfd(bs, bs->open_flags, &open_flags,
        false, errp);
    if (ret < 0) {
        return ret;
    } else if (ret != s->fd) {
        s->perm_change_fd = ret;
    }
}

/* Prepare permissions on old fd to avoid conflicts between old and new,
 * but keep everything locked that new will need. */
ret = raw_handle_perm_lock(bs, RAW_PL_PREPARE, perm, shared, errp);
if (ret < 0) {
    goto fail;
}

/* Copy locks to the new fd */
if (s->perm_change_fd) {
    ret = raw_apply_lock_bytes(NULL, s->perm_change_fd, perm, ~shared,
        false, errp);
    if (ret < 0) {
        raw_handle_perm_lock(bs, RAW_PL_ABORT, 0, 0, NULL);
        goto fail;
    }
}
return 0;

+ fail:
static void raw_set_perm(BlockDriverState *bs, uint64_t perm, uint64_t shared)
{
    BDRVRawState *s = bs->opaque;
    
    /* For reopen, we have already switched to the new fd (.bdvr_set_perm is * called after .bdvr_reopen_commit) */
    if (s->perm_change_fd && s->fd != s->perm_change_fd) {
        qemu_close(s->fd);
        s->fd = s->perm_change_fd;
    }
    s->perm_change_fd = 0;
    
    raw_handle_perm_lock(bs, RAW_PL_COMMIT, perm, shared, NULL);
    s->perm = perm;
    s->shared_perm = shared;
}

static void raw_abort_perm_update(BlockDriverState *bs)
{
    BDRVRawState *s = bs->opaque;
    
    /* For reopen, .bdvr_reopen_abort is called afterwards and will close *
    * the file descriptor. */
    if (s->perm_change_fd && !s->reopen_state) {
        qemu_close(s->perm_change_fd);
    }
    s->perm_change_fd = 0;
    
    raw_handle_perm_lock(bs, RAW_PL_ABORT, 0, 0, NULL);
}
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
    } else {
        x86emu_dump_regs();
    }
}

if (DEBUG_DECODE() && !DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
    for (i=0; i < M.x86.enc_pos; i++) {
        sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
    }
    printk("%-20s",buf1);
    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -150,8 +150,69 @@
target += (s16) M.x86.R_IP;
TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
    +    END_OF_INSTR();
+}
{  // perform the byte swap
  s32 temp = reg;
  reg = (temp & 0xFF000000) >> 24;
  reg |= (temp & 0xFF0000) >> 8;
  reg |= (temp & 0xFF00) << 8;
  reg |= (temp & 0xFF) << 24;
  return reg;
}

void x86emuOp2_bswap(u8 op2)
{
  /* byte swap 32 bit register */
  START_OF_INSTR();
  DECODE_PRINTF("BSWAP\n");
  switch (op2) {
    case 0xc8:
      DECODE_PRINTF("EAX\n");
      M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
      break;
    case 0xc9:
      DECODE_PRINTF("ECX\n");
      M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
      break;
    case 0xca:
      DECODE_PRINTF("EDX\n");
      M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
      break;
    case 0xcb:
      DECODE_PRINTF("EBX\n");
      M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
      break;
    case 0xcc:
      DECODE_PRINTF("ESP\n");
      M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
      break;
    case 0xcd:
      DECODE_PRINTF("EBP\n");
      M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
      break;
    case 0xce:
      DECODE_PRINTF("ESI\n");
      M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
      break;
    case 0xcf:
      DECODE_PRINTF("EDI\n");
      M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
      break;
  }
TRACE_AND_STEP();
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1702,14 +1763,14 @@
    /* 0xc5 */ x86emuOp2_illegal_op,
    /* 0xc6 */ x86emuOp2_illegal_op,
    /* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,
+/* 0xd0 */ x86emuOp2_illegal_op,
+/* 0xd1 */ x86emuOp2_illegal_op,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
target = (u16)(M.x86.R_IP + (s16)offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
      M.x86.R_IP = target;
  }
+ } 
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

 count = 1;
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
      /* move them until CX is ZERO. */
      count = M.x86.R_CX;
      /* move them until (E)CX is ZERO. */
      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
      if (M.x86.mode & SYSMODE_32BIT_REP)
          M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
  }
  while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
  }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

  count = 1;
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
      /* move them until CX is ZERO. */
      count = M.x86.R_CX;
      /* move them until (E)CX is ZERO. */
      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
      if (M.x86.mode & SYSMODE_32BIT_REP)
          M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
  }

while (count--) {
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    + if (M.x86.intr & INTR_HALTED)
        break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                    val1 = fetch_data_long(M.x86.R_SI);
                    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                }
    @ @ -2574,6 +2586,8 @@
}
cmp_word((u16)val1, (u16)val2);

- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALTED)
+     break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
M.x86.R_CX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
else {
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+     break;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        - count = M.x86.R_CX;
        + /* move them until (E)CX is ZERO. */
        + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
while (count--) {
    if (M.x86.intr & INTR_HALTED)
        break;
}

M.x86.R_DI += inc;
++

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* dont care whether REPE or REPNE */
  - /* move them until CX is ZERO. */
  + /* move them until (E)CX is ZERO. */
  + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
      - M.x86.R_CX -= 1;
      + if (M.x86.mode & SYSMODE_32BIT_REP)
          M.x86.R_ECX -= 1;
      + else
          M.x86.R_CX -= 1;
      M.x86.R_SI += inc;
      + if (M.x86.intr & INTR_HALTED)
          break;
  }
  M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    @@ -2859,9 +2911,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
      - /* move them until CX is ZERO. */
      - count = M.x86.R_CX;
      + /* move them until (E)CX is ZERO. */
      + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
      +if (M.x86.mode & SYSMODE_32BIT_REP)
          M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
        @@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
}
M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALT)
+        break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
            +    M.x86.R_ECX -= 1;
            + else
            +    M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            + if (M.x86.intr & INTR_HALT)
            +    break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
            +    M.x86.R_ECX -= 1;
            + else
            +    M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;          /* zero flag set means equal */
            + if (M.x86.intr & INTR_HALT)
            +    break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
TRACE_AND_STEP();

if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
            M.x86.R_CX -= 1;
        }
    }
}
else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
            M.x86.R_CX -= 1;
        }
    }
}
else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
            M.x86.R_CX -= 1;
        }
    }
}
else if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
            M.x86.R_CX -= 1;
        }
    }
}
else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
            M.x86.R_CX -= 1;
        }
    }
}
else if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
            M.x86.R_CX -= 1;
        }
    }
}
break;        /* zero flag set means equal */
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
        DECODE_PRINTF("RET\t");
        imm = fetch_word_imm();
        DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{    
    START_OF_INSTR();
    DECODE_PRINTF("RETn");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3471,10 +3533,10 @@
{    
    START_OF_INSTR();
    DECODE_PRINTF("RETF\t");
        imm = fetch_word_imm();
        DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{    
    START_OF_INSTR();
    DECODE_PRINTF("RETFn");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
    !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
    ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
Open Source Used In Cisco VIM 3.4.31881

@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x
", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4433,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
    case 4: /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
    case 5: /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ prim_ops.c	16 Jan 2008 14:18:15 -0000	1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* in until CX is ZERO */
    - u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
    + u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX = M.x86.R_CX;
    -
    while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
    }
    M.x86.R_CX = 0;
    - if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    + if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* out until CX is ZERO */
        - u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
        + u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX = M.x86.R_CX;
        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
        - if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        + if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
}
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

-#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("inb %#04x \n", addr);
  -return inb(addr);
  +return 0;
}

/**************************************************************************
@@ -235,7 +230,7 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("inw %#04x \n", addr);
  -return inw(addr);
  +return 0;
}

/**************************************************************************
@@ -250,7 +245,7 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("inl %#04x \n", addr);
  -return inl(addr);
  +return 0;
}

/**************************************************************************
@@ -264,7 +259,6 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("outb %#02x -> %#04x \n", val, addr);
  -outb(val, addr);
  return;
}

@@ -279,7 +273,6 @@
{
  DB(if (DEBUG_IO_TRACE()))

Open Source Used In Cisco VIM 3.4.31884
printk("outw %#04x -> %#04x \n", val, addr);
-outw(val, addr);
return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);
)
-outl(val, addr);
return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (int) base;
+    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
#define __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT()        	(M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     	(M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALL_REGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()     	(M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMP_REGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           	(M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     	(M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      	(M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT() 0
# define DEBUG_TRACECALL() 0
# define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACEJMPREGS() 0
# define DEBUG_SYS() 0
# define DEBUG_MEM_TRACE() 0
# define DEBUG_IO_TRACE() 0
@@ -169,14 +171,20 @@
x86emu_dump_regs();                                     
if (DEBUG_TRACECALL())                                     	|
  printk("%04x:%04x: CALL %s %04x:%04x\n", u, v, s, w, x);  
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())									|
  x86emu_dump_regs();                                     
if (DEBUG_TRACECALL())                                     	|
-  printk("%04x:%04x: %s
",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+   if (DEBUG_TRACEJMPREGS())
+      x86emu_dump_regs();
+   if (DEBUG_TRACEJMP())
+      printk("%04x:%04x: JMP %s %04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h7 Sep 2007 10:01:21 -0000
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -0000
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
 SYSMODEPREFIX_DATA | \
 SYSMODEPREFIX_ADDR)
+ SYSMODEPREFIX_ADDR | \
+ SYSMODE_32BIT_REP)
#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
*/
u32 mode;
volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#ifdef DEBUG
-int check;
+ int check;
 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#endif /* __cplusplus */
}                       /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

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-- Wolfgang Denk

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    <signature of Ty Coon>, 1 April 1989
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========================================================================

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus was licensed under the Python license. Same license applies to all files in the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

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/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/*
* System call numbers.
*
* created from: OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall  0
#define TARGET_OPENBSD_NR_exit     1
#define TARGET_OPENBSD_NR_fork     2
#define TARGET_OPENBSD_NR_read     3
#define TARGET_OPENBSD_NR_write    4
#define TARGET_OPENBSD_NR_open     5
#define TARGET_OPENBSD_NR_close    6
#define TARGET_OPENBSD_NR_wait4    7
#define TARGET_OPENBSD_NR_link     9
#define TARGET_OPENBSD_NR_unlink   10
#define TARGET_OPENBSD_NR_chdir    12
#define TARGET_OPENBSD_NR_fchdir   13
#define TARGET_OPENBSD_NR_mknod    14
#define TARGET_OPENBSD_NR_chmod    15
#define TARGET_OPENBSD_NR_chown    16
#define TARGET_OPENBSD_NR_break    17
#define TARGET_OPENBSD_NR_getpid   20
#define TARGET_OPENBSD_NR_mount    21
#define TARGET_OPENBSD_NRUnmount  22
#define TARGET_OPENBSD_NR_setuid   23
#define TARGET_OPENBSD_NR_getuid   24
#define TARGET_OPENBSD_NR_geteuid  25
#define TARGET_OPENBSD_NR_ptrace   26
#define TARGET_OPENBSD_NR_recvmsg  27
#define TARGET_OPENBSD_NR_sendmsg  28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_rmprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setssockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_lfs_setconf 191
#define TARGET_OPENBSD_NR_lfs_setconf 192
#define TARGET_OPENBSD_NR_lfs_swapctl 193
#define TARGET_OPENBSD_NR_lfs_getrlimit 194
#define TARGET_OPENBSD_NR_lfs_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspicont 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat     292
#define TARGET_OPENBSD_NR_lstat     293
#define TARGET_OPENBSD_NR_fhstat    294
#define TARGET_OPENBSD_NR___semctl  295
#define TARGET_OPENBSD_NR_shmctl    296
#define TARGET_OPENBSD_NR_msgctl    297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid  299
#define TARGET_OPENBSD_NR_thrsleep  300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit   302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd  304
#define TARGET_OPENBSD_NR_adjfreq   305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs    307
#define TARGET_OPENBSD_NR_fstatfs   308
#define TARGET_OPENBSD_NR_fhstatfs  309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

/*

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*
*/

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -L/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I -L/include/x86emu \
-Is(TOP)/clients/net-snkm/include -Is(ROOTDIR)/include \
-Is(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
-ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^ 

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
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From c8b73d0f85b2435aabbdec92452cb7a0446b1d36 Mon Sep 17 00:00:00 2001
From: Kevin Wolf <kwolf@redhat.com>
Date: Mon, 3 Sep 2018 09:41:40 +0200
Subject: [PATCH 27/29] qemu-img: fix regression copying secrets during convert
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

RH-Author: Kevin Wolf <kwolf@redhat.com>
Message-id: <20180903094140.12988-2-kwolf@redhat.com>
Patchwork-id: 82031
O-Subject: [RHV-7.6 qemu-kvm-rhev PATCH 1/1] qemu-img: fix regression copying secrets during convert
Bugzilla: 1575578
RH-Acked-by: Max Reitz <mreitz@redhat.com>
RH-Acked-by: Daniel P. Berrange <berrange@redhat.com>
RH-Acked-by: Miroslav Rezanina <mrezanin@redhat.com>

From: Daniel P. Berrang <berrange@redhat.com>

When the convert command is creating an output file that needs secrets, we need to ensure those secrets are passed to both the blk_new_open and bdrv_create API calls.
This is done by qemu-img extracting all opts matching the name suffix "key-secret". Unfortunately the code doing this was run after the call to bdrv_create(), which meant the QemuOpts it was extracting secrets from was now empty.

Previously this worked by luks as a bug meant the "key-secret" parameters were not purged from the QemuOpts. This bug was fixed in commit b76b4f604521e59f857d6177bc55f6f2e41fd392

Author: Kevin Wolf <kwolf@redhat.com>
Date: Thu Jan 11 16:18:08 2018 +0100

qcow2: Use visitor for options in qcow2_create()

Exposing the latent bug in qemu-img. This fix simply moves the copying of secrets to before the bdrv_create() call.

Cc: qemu-stable@nongnu.org
Signed-off-by: Daniel P. Berrang <berrange@redhat.com>
Signed-off-by: Kevin Wolf <kwolf@redhat.com>
(cherry picked from commit 8d65a3ccf5db7f0436e095cd952f5d0c3a873ba)
Signed-off-by: Kevin Wolf <kwolf@redhat.com>
Signed-off-by: Miroslav Rezanina <mrezanin@redhat.com>

---
qemu-img.c | 32 +++++++++++++++-----------------
1 file changed, 15 insertions(+), 17 deletions(-)

diff --git a/qemu-img.c b/qemu-img.c
index f42750a..fa0cbd7 100644
--- a/qemu-img.c
+++ b/qemu-img.c
@@ -348,21 +348,6 @@ static int img_add_key_secrets(void *opaque,
               return 0;
 }

-static BlockBackend *img_open_new_file(const char *filename,
 -       QemuOpts *create_opts,
 -       const char *fmt, int flags,
 -       bool writethrough, bool quiet,
 -       bool force_share)
-{  
-      QDict *options = NULL;
-      
-      options = qdict_new();
-      qemu_opt_foreach(create_opts, img_add_key_secrets, options, &error_abort);
-      
-      return img_open_file(filename, options, fmt, flags, writethrough, quiet,
-               force_share);
static BlockBackend *img_open(bool image_opts,
   const char *filename,
@@ -1994,6 +1979,7 @@ static int img_convert(int argc, char **argv)
 BlockDriverState *out_bs;
 QemuOpts *opts = NULL, *sn_opts = NULL;
 QemuOptsList *create_opts = NULL;
+   QDict *open_opts = NULL;
 char *options = NULL;
 Error *local_err = NULL;
 bool writethrough, src_writethrough, quiet = false, image_opts = false,
@@ -2342,6 +2328,16 @@ static int img_convert(int argc, char **argv)
 }
 }

+ /*
+ * The later open call will need any decryption secrets, and
+ * bdrv_create() will purge "opts", so extract them now before
+ * they are lost.
+ */
+ if (!skip_create) {
+   open_opts = qdict_new();
+   qemu_opt_foreach(opts, img_add_key_secrets, open_opts, &error_abort);
+ }
+
+ if (!skip_create) {
+   /* Create the new image */
+   ret = bdrv_create(drv, out_filename, opts, &local_err);
@@ -2368,8 +2364,9 @@ static int img_convert(int argc, char **argv)
 * That has to wait for bdrv_create to be improved
 * to allow filenames in option syntax
 */
-   s.target = img_open_new_file(out_filename, opts, out_fmt,
-                              flags, writethrough, quiet, false);
+   s.target = img_open_file(out_filename, open_opts, out_fmt,
+                           flags, writethrough, quiet, false);
+   open_opts = NULL; /* blk_new_open will have freed it */
 } if (!s.target) {
   ret = -1;
@@ -2437,6 +2434,7 @@ out:
 qemu_opts_del(opts);
 qemu_opts_free(create_opts);
 qemu_opts_del(sn_opts);
+   qobject_unref(open_opts);
   blk_unref(s.target);
if (s.src) {
    for (bs_i = 0; bs_i < s.src_num; bs_i++) {

--

1.8.3.1
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*
*      @}(#)mman.h  8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7


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*
*      @(#)mman.h      8.2 (Berkeley) 1/9/95
 */
#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after exec */
define TARGET_NETBSD_MAP_TRYFIXED      0x0400 /* attempt hint address, even within break */
define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is established */
define TARGET_NETBSD_MAP_STACK         0x2000  /* allocated from memory, swap space (stack) */
define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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typedef TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
define TARGET_OPENBSD_MAP_NOextend 0x0100 /* for MAP_FILE, don't change file size */
define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */
define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7
// XXX
define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi

if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi

if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV
echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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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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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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.

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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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The way that reopen interacts with permission changes has one big problem: Both operations are recursive, and the permissions are changes for each node in the reopen queue.

For a simple graph that consists just of parent and child, .bdrv_check_perm will be called twice for the child, once recursively when adjusting the permissions of parent, and once again when the child itself is reopened.

Even worse, the first .bdrv_check_perm call happens before .bdrv_reopen_prepare was called for the child and the second one is called afterwards.

Making sure that .bdrv_check_perm (and the other permission callbacks) are called only once is hard. We can cope with multiple calls right now, but as soon as file-posix gets a dynamic auto-read-only that may need to open a new file descriptor, we get the additional requirement that all of them are after the .bdrv_reopen_prepare call.

So reorder things in bdrv_reopen_multiple() to first call .bdrv_reopen_prepare for all involved nodes and only then adjust permissions.
typedef struct BlockReopenQueueEntry {
    bool prepared;
    bool perms_checked;
    BDRVReopenState state;
    QSIMPLEQ_ENTRY(BlockReopenQueueEntry) entry;
} BlockReopenQueueEntry;

int bdrv_reopen_multiple(AioContext *ctx, BlockReopenQueue *bs_queue, Error **errp) {
    QSIMPLEQ_FOREACH(bs_entry, bs_queue, entry) {
        BDRVReopenState *state = &bs_entry->state;
        ret = bdrv_check_perm(state->bs, bs_queue, state->perm,
                               state->shared_perm, NULL, errp);
        if (ret < 0) {
            goto cleanup_perm;
        }
        bs_entry->perms_checked = true;
    }

    /* If we reach this point, we have success and just need to apply the
     * changes
     */
    if (ret == 0) {
        bdrv_set_perm(state->bs, state->perm, state->shared_perm);
    } else {
        bdrv_abort_perm_update(state->bs);
    }
}

cleanup:
    QSIMPLEQ_FOREACH_SAFE(bs_entry, bs_queue, entry, next) {
        BDRVReopenState *state = &bs_entry->state;

        if (!bs_entry->perms_checked) {
            continue;
        }

        if (ret == 0) {
            bdrv_set_perm(state->bs, state->perm, state->shared_perm);
        } else {
            bdrv_abort_perm_update(state->bs);
        }
    }
}
if (ret) {
    if (ret < 0) {
        goto error;
    }
    ret = 0;
}

error:

void bdrv_reopen_commit(BDRVReopenState *reopen_state)
{
    bdrv_refresh_limits(bs, NULL);
    bdrv_set_perm(reopen_state->bs, reopen_state->perm,
                  reopen_state->shared_perm);
    new_can_write =
        !bdrv_is_read_only(bs) && !(bdrv_get_flags(bs) & BDRV_O_INACTIVE);
    if (!old_can_write && new_can_write && drv->bdrv_reopen_bitmaps_rw) {
        drv->bdrv_reopen_abort(reopen_state);
    }
    bdrv_abort_perm_update(reopen_state->bs);
}

--
1.8.3.1
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Please read the top of each source file for the details on the various
System call numbers.

* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek 19
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending13 52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13 53
#define TARGET_NETBSD_NR_iocntl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
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 */
ifdef TOP
    TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
endif
export TOP
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
    SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
    for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
    for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

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1.215 python-appdirs 1.4.0 4.el7ost

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1.216 python-rcssmin 1.0.6 3.el7ost

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`cssmin.py` - A Python port of the YUI CSS compressor.

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1.217 fluent-plugin-detect-exceptions 0.0.11

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1.220 setroubleshoot-plugins 3.0.67 3.el7

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1.224 scl-utils 20130529 19.el7

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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Andreas Litt <andreas.litt@gmail.com>
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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dshultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
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1.229 pygobject 2.28.6 11.el7
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1.230 Isof 4.87 6.el7

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1.233 sdparm 1.08 3.el7

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1.235 ansible 2.2.1.0 1.el7

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 DOCUMENTATION = ""

---

module: cl_license
version_added: "2.1"
author: "Cumulus Networks (@CumulusNetworks)"
short_description: Install Cumulus Linux license
description:
  - Installs a Cumulus Linux license. The module reports no change of status
    when a license is installed.
For more details go the Cumulus Linux License Documentation at
U(http://docs.cumulusnetwork.com) and the Licensing KB Site at
U(https://support.cumulusnetworks.com/hc/en-us/sections/200507688)
notes:
  - To activate a license for the FIRST time, the switchd service must be
    restarted. This action is disruptive. The license renewal process occurs
    via the Cumulus Networks Customer Portal -
    U(http://customers.cumulusnetworks.com).
  - A non-EULA license is REQUIRED for automation. Manually install the
    license on a test switch, using the command "cl-license -i <license_file>"
    to confirm the license is a Non-EULA license.
See EXAMPLES, for the proper way to issue this notify action.
options:
  src:
    description:
      - The full path to the license. Can be local path or HTTP URL.
    required: true
  force:
    description:
      - Force installation of a license. Typically not needed.
      It is recommended to manually run this command via the ansible
      command. A reload of switchd is not required. Running the force
      option in a playbook will break the idempotent state machine of
      the module and cause the switchd notification to kick in all the
      time, causing a disruption.
    choices:
      - yes
      - no

...`

EXAPLIES = ""
Example playbook using the cl_license module to manage licenses on Cumulus Linux

---

- hosts: all
tasks:
- name: install license using http url
cl_license: src='http://10.1.1.1/license.txt'
  notify: restart switchd

- name: Triggers switchd to be restarted right away, before play, or role
  is over. This is desired behaviour
meta: flush_handlers

- name: configure interfaces
template: src=interfaces.j2 dest=/etc/network/interfaces
  notify: restart networking

handlers:
- name: restart switchd
  service: name=switchd state=restarted
- name: restart networking
  service: name=networking state=reloaded

----
# Force all switches to accept a new license. Typically not needed
ansible -m cl_license -a "src=http://10.1.1.1/new_lic' force=yes" -u root all

----

RETURN = ''
changed:
  description: whether the interface was changed
  returned: changed
  type: bool
  sample: True
msg:
  description: human-readable report of success or failure
  returned: always
  type: string
  sample: "interface bond0 config updated"

CL_LICENSE_PATH=/usr/cumulus/bin/cl-license'

def install_license(module):
  # license is not installed, install it
  _url = module.params.get('src')
  (_rc, out, _err) = module.run_command("%s -i %s" % (CL_LICENSE_PATH, _url))
  if _rc > 0:
def main():
    module = AnsibleModule(
        argument_spec=dict(
            src=dict(required=True, type='str'),
            force=dict(type='bool', choices=BOOLEANS, default=False)
        ),
    )

    # check if license is installed
    # if force is enabled then set return code to nonzero
    if module.params.get('force') is True:
        _rc = 10
    else:
        (_rc, out, _err) = module.run_command(CL_LICENSE_PATH)
    if _rc == 0:
        module.msg = "No change. License already installed"
        module.changed = False
    else:
        install_license(module)
        module.msg = "License installation completed"
        module.changed = True
    module.exit_json(changed=module.changed, msg=module.msg)

    # import module snippets
    from ansible.module_utils.basic import *
    # from ansible.module_utils.urls import *

    if __name__ == '__main__':
        main()
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1.240 openstack ironic ui 3.1.2 2.el7ost

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1.241 pyjwt 1.7.1

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1.243 python-docutils 0.12
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1.247 python-pycparser 2.14 1.el7

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1.248 python2-tooz 1.60.2 1.el7ost

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1.252 python2-pyroute2 0.5.2 4.el7ost

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1.254 python-ironic-inspector-client 3.1.2
1.el7ost

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1.255 openstack-heat-api 10.0.3 8.el7ost

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.257 perl-net-daemon 0.48 5.el7
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**1.259 mod-wsgi 3.4 18.el7**

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1.260 python2-munch 2.2.0 2.el7ost

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1.261 wheel 0.31.0

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1.263 cachetools 3.1.0
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Version 2.1, February 1999

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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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1.273 rhnlib 2.5.65 8.el7

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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 * @since 1.1
 *
 * @deprecated This class is deprecated and subject to removal in a future
 * version of Java SE. It has been replaced by \{@code java.security.Policy\}
 * and related classes since 1.2.
 */
@Deprecated(since="9", forRemoval=true)
public interface Permission {

 /**
  * Returns true if the object passed matches the permission represented
  * in this interface.
  *
  * @param another the Permission object to compare with.
  *
  * @return true if the Permission objects are equal, false otherwise
  */
  public boolean equals(Object another);

 /**
  * Prints a string representation of this permission.
  *
  * @return the string representation of the permission.
  */
  public String toString();
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 */

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import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {
    public CopyingResponse() {}

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
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monospaced.italic.latin-1=DejaVu LGC Sans Mono Oblique
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monospaced.italic.korean=Baekmuk Gulim
monospaced.italic.chinese-big5=AR PL ShanHeiSun Uni
monospaced.italic.chinese-gb18030=AR PL ShanHeiSun Uni

monospaced.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
monospaced.bolditalic.japanese-x0208=Sazanami Gothic
monospaced.bolditalic.korean=Baekmuk Gulim
monospaced.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
monospaced.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.plain.latin-1=DejaVu LGC Sans Mono
dialoginput.plain.japanese-x0208=Sazanami Gothic
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

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dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
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dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

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Version: 4.1

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
September 29, 2017
## jopt-simple v4.6

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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a { @code java.io.FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * { @code java.lang.RuntimePermission},
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the { @code implies} method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * <p>Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 */
public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * { @code SecurityManager.checkPermission} method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     *
     * @param object the object being guarded (currently ignored).
     *
     * @throws SecurityException
     *        if a security manager exists and its
     *        { @code checkPermission} method doesn't allow access.
     *
     */
    public void checkGuard(Object object) throws SecurityException {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null) sm.checkPermission(this);
    }

    /**
     * Checks if the specified permission's actions are "implied by"
* this object's actions.

* <p>

* This must be implemented by subclasses of Permission, as they are the
* only ones that can impose semantics on a Permission object.

* <p>The {@code implies} method is used by the AccessController to determine
* whether or not a requested permission is implied by another permission that
* is known to be valid in the current execution context.

* <p>@param permission the permission to check against.

* <p>@return true if the specified permission is implied by this object,
* false if not.

*/

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <p>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 * <p>
 * @param obj the object we are testing for equality with this object.
 * <p>
 * @return true if both Permission objects are equivalent.
 * */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required {@code hashCode} behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * <ul>
 * <li>{@code hashCode} method
 * <li>must consistently return the same integer. This integer need not
 * <li>remain consistent from one execution of an application to another
 * <p>
 * <li>If two Permission objects are equal according to the
 * <ul>
 * <li>{@code equals}
 * <li>method, then calling the {@code hashCode} method on each of the
 * <li>two Permission objects must produce the same integer result.
 * <p>
 * */

* @return a hash code value for this object.
*/

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a \{@code java.io.FilePermission\},
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 *
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the \{@code getActions\} method is invoked.
 *
 * @return the actions of this Permission.
 *
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the \{@code PermissionCollection.implies\} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * '("ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + ") + "" + actions + ")";
    }
}

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import java.util.GregorianCalendar;
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}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
        Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
    }
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    </LanguageOptions>
  </settings>
</component>

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 */
/**
 * import java.rmi.Remote;
 * public interface Legal extends Remote {};

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 */
public class PrintTest extends JFrame {
    private JPanel contentPane;
    private JMenuBar jMenuBar1 = new JMenuBar();
    private JMenu jMenuFile = new JMenu();
    private JMenuItem jMenuItem1 = new JMenuItem();
    private BorderLayout borderLayout1 = new BorderLayout();
    private JPanel jPanel1 = new JPanel();
    private BorderLayout borderLayout2 = new BorderLayout();
    private JScrollPane jScrollPane1 = new JScrollPane();
    private JTextArea jTextArea1 = new JTextArea();
    private Border border1;

    //Construct the frame
    public PrintTest() {
        enableEvents(AWTEvent.WINDOW_EVENT_MASK);
        try {
            jbInit();
        }
        catch(Exception e) {
            e.printStackTrace();
        }
    }

    private void jbInit() throws Exception  {
        contentPane = (JPanel) this.getContentPane();
        border1 = new Border()
        jbInit();
        printStackTrace();
    }

    //Construct the frame
    public PrintTest() {
        enableEvents(AWTEvent.WINDOW_EVENT_MASK);
        try {
        jbInit();
    }
    catch(Exception e) {
        e.printStackTrace();
    }
    }

    private void jbInit() throws Exception {
        contentPane = (JPanel) this.getContentPane();
border1 = BorderFactory.createLineBorder(Color.black, 1);
contentPane.setLayout(borderLayout1);
this.setTitle("Print Test");
jMenuFile.setText("File");
jMenuItem1.setText("Print");
jMenuItem1.setAccelerator(javax.swing.KeyStroke.getKeyStroke(80, java.awt.event.KeyEvent.CTRL_MASK, false));
jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(ActionEvent e) {
        jMenuItem1_actionPerformed(e);
    }
});
jPanel1.setLayout(borderLayout2);
jTextArea1.setBorder(border1);
contentPane.add(jPanel1, BorderLayout.CENTER);
contentPane.add(jPanel1, BorderLayout.CENTER);
jScrollPane1.getViewport().add(jTextArea1, null);
contentPane.add(jScrollPane1, BorderLayout.CENTER);
contentPane.add(jMenuFile, BorderLayout.CENTER);
jPanel1.add(jScrollPane1, BorderLayout.CENTER);
jScrollPane1.setPreferredSize(new Dimension(468, 648));
jTextArea1.setPreferredSize(new Dimension(468, 864));
jMenuBar1.add(jMenuFile);

jTextArea1.setText("1. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "2. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "3. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "4. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "5. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "6. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "7. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "8. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "9. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "10. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "11. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "12. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "13. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "14. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "15. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "16. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "17. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "18. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "19. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "20. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "21. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "22. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "23. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "24. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "25. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "26. This is a printer test designed to illustrate a bug in the java printing API\n" +
     "27. This is a printer test designed to illustrate a bug in the java printing API.\n");
this.setJMenuBar(jMenuBar1);

protected void processWindowEvent(WindowEvent e) {
    super.processWindowEvent(e);
    if (e.getID() == WindowEvent.WINDOW_CLOSING) {
        System.exit(0);
    }
}

void jMenuItem1_actionPerformed(ActionEvent e) {
    PrintUtils.printComponent(jTextArea1);
}

public static class PrintUtils implements Printable {
    private JComponent componentToBePrinted;
    protected double scale = 1.0;
    PrintRequestAttributeSet pras = new HashPrintRequestAttributeSet();

    public static void printComponent(JComponent c) {
        new PrintUtils(c).print();
    }

    public PrintUtils(JComponent componentToBePrinted) {
        this.componentToBePrinted = componentToBePrinted;
    }

    void print() {
        DocFlavor flavor = DocFlavor.SERVICE_FORMATTED.PRINTABLE;
        pras.add(MediaSizeName.NA_LEGAL);

        PrintService printService[] = PrintServiceLookup.lookupPrintServices(flavor, pras);
        PrintService defaultService = PrintServiceLookup.lookupDefaultPrintService();
        if ((defaultService == null) || (printService.length == 0)) {
            System.out.println("No default print service found. Test aborted. ");
            return;
        }

        PrintService service = ServiceUI.printDialog(null, 100, 100, printService, defaultService, flavor, pras);

        if (service != null) {
            DocPrintJob job = service.createPrintJob();
            DocAttributeSet das = new HashDocAttributeSet();

            ...
```java
Doc doc = new SimpleDoc(this, flavor, das);

try {
    job.print(doc, pras);
}
} catch (PrintException pe) {
    pe.printStackTrace();
}

public int print(Graphics g, PageFormat pageFormat, int pageIndex) {
    double h = componentToBePrinted.getHeight();
    double pageHeight = pageFormat.getImageableHeight();

    if (pageIndex * pageHeight > h * scale) {
        return(NO_SUCH_PAGE);
    } else {
        Graphics2D g2d = (Graphics2D) g;

        // move past unprintable area
        double xOffset = pageFormat.getImageableX();
        double yOffset = pageFormat.getImageableY();
        g2d.translate(xOffset, yOffset);

        // move to correct page taking into account the scaling
        double newX = 0;
        double newY = pageHeight * (-pageIndex);
        g2d.translate(newX / 1.0, newY / 1.0);

        // print
        componentToBePrinted.print(g2d);
        return(PAGE_EXISTS);
    }
}

public static void disableDoubleBuffering(Component c) {
    RepaintManager currentManager = RepaintManager.currentManager(c);
    currentManager.setDoubleBufferingEnabled(false);
}
```
/** Re-enables double buffering globally. */

public static void enableDoubleBuffering(Component c) {
    RepaintManager currentManager = RepaintManager.currentManager(c);
    currentManager.setDoubleBufferingEnabled(true);
}

public static void main(String[] args) {
    try {
        UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
    } catch (Exception e) {
        e.printStackTrace();
    }
    PrintTest frame = new PrintTest();
    frame.pack();

    Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();
    Dimension frameSize = frame.getSize();
    if (frameSize.height > screenSize.height) {
        frameSize.height = screenSize.height;
    }
    if (frameSize.width > screenSize.width) {
        frameSize.width = screenSize.width;
    }
    frame.setLocation((screenSize.width - frameSize.width) / 2, (screenSize.height - frameSize.height) / 2);
    frame.setVisible(true);
}

## X Windows System v6.8.2

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1.283 redhat-lsb-core 4.1 27.el7
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```

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```
@startuml
title live-migration with ovs-normal plug : nova<->neutron interactions

participant nova_conductor
participant nova_compute1
participant nova_compute2
participant neutron_server
participant neutron_l2_agent2
participant neutron_l2_agent1
participant neutron_l3_agent2

nova_conductor -> nova_compute1 : live_migrate
activate nova_compute1

nova_compute1 -> nova_compute2 : RPC.call : pre_live_migrate()
activate nova_compute2

nova_compute2 -> neutron_server : REST : list_port()
activate neutron_server

neutron_server -> nova_compute2
deactivate neutron_server

nova_compute2 -> nova_compute2 : plug_vifs()

nova_compute2 -> nova_compute1
@enduml
```
deactivate nova_compute2

group proactive dvr router creation
  nova_compute1 -> neutron_server : REST : update_port('binding:profile'={'migrating_to':'host2'})
  activate neutron_server
  neutron_server -> neutron_i3_agent1: RPC.cast(fanout) : port_update(port)
  activate neutron_i3_agent1
  destroy neutron_i3_agent1
  note over neutron_i3_agent1
    "migrating_to" does not match host
  end note
  neutron_server -> neutron_i3_agent2: RPC.cast(fanout) : port_update(port)
  activate neutron_i3_agent2
  note over neutron_i3_agent2
    proactively create DVR router
  end note
  deactivate neutron_i3_agent2
  neutron_server -> nova_compute1
  deactivate neutron_server
end

note over nova_compute1, nova_compute2
  libvirt handles the live-migration
end note

group port plugged on host2
  note over nova_compute2
    libvirt creates tap device
  end note
  neutron_i2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
  activate neutron_i2_agent2
  activate neutron_server
  neutron_server -> neutron_i2_agent2
  deactivate neutron_server
  neutron_i2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
  activate neutron_server
  neutron_server -> neutron_i2_agent2
  deactivate neutron_server
  note over neutron_server
    port status is never changed since port is not bound to host2
  end note
  deactivate neutron_i2_agent2
end

group port unplugged on host1
note over nova_compute1
    libvirt destroys the VM
    and corresponding tap device
end note

neutron_l2_agent1 -> neutron_server : RPC.call : update_device_list(devices_down : [port])
activate neutron_l2_agent1
activate neutron_server
neutron_server -> neutron_server : update_port_status(DOWN)
neutron_server -> neutron_l2_agent1
deactivate neutron_l2_agent1
note over neutron_server
    port status changed to
    DOWN since port is bound
    to host1
end note
deactivate neutron_server
end
	note left of nova_compute1
    live migration
    succeeded
end note

nova_compute1 -> nova_compute1 : post_live_migration
nova_compute1 -> nova_compute1 : unplug_vifs()
nova_compute1 -> nova_compute2 : RPC.cast : post_live_migration_at_destination()
deactivate nova_compute1
activate nova_compute2
nova_compute2 -> neutron_server : REST : update_port({'binding:host_id':'host2', 'binding:profile':{} })
activate neutron_server
neutron_server -> neutron_server : update_port_status(DOWN)
neutron_server -> neutron_l2_agent1 : RPC.cast(fanout) : port_update(port)
activate neutron_l2_agent1
destroy neutron_l2_agent1
note over neutron_l2_agent1
    port not hosted
    on host1
end note

neutron_server -> neutron_l2_agent2 : RPC.cast(fanout) : port_update(port)
activate neutron_l2_agent2
neutron_server -> nova_compute2
deactivate nova_compute2
deactivate neutron_server
group port_update processed by agent that really hosts the port
neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_server
neutron_server -> neutron_server : update_port_status(BUILD)
neutron_server -> neutron_l2_agent2
activate neutron_server
neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
neutron_server -> neutron_server : update_port_status(ACTIVE)
neutron_server -> neutron_l2_agent2
activate neutron_server
note over neutron_server
    port status changed to
    ACTIVE since port
    is now bound to host2
end note
deactivate neutron_l2_agent2
end group

@enduml

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@startuml

[Open Source Used In Cisco VIM 3.4.32701]
nova_conductor -> nova_compute1 : live_migrate
activate nova_compute1

nova_compute1 -> nova_compute2 : RPC.call : pre_live_migrate()
activate nova_compute2

nova_compute2 -> neutron_server : REST : list_port()
activate neutron_server
neutron_server -> nova_compute2
deactivate neutron_server

group port plugged on host2
nova_compute2 -> nova_compute2 : plug_vifs()
activate neutron_l2_agent2
neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_server
neutron_server -> neutron_l2_agent2
deactivate neutron_server
neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
neutron_server -> neutron_l2_agent2
deactivate neutron_server
note over neutron_server
port status is never changed since port is not bound to host2
end note
deactivate neutron_l2_agent2

deva_compute2 -> nova_compute1
deactivate nova_compute2

group proactive dvr router creation
nova_compute1 -> neutron_server : REST : update_port(binding:profile={'migrating_to':'host2'})
activate neutron_server
neutron_server -> neutron_l3_agent1: RPC.cast(fanout) : port_update(port)
activate neutron_l3_agent1
destroy neutron_l3_agent1
note over neutron_l3_agent1
"migrating_to" does not match host
end note
neutron_server -> neutron_l3_agent2: RPC.cast(fanout) : port_update(port)
activate neutron_l3_agent2
note over neutron_l3_agent2
proactively create DVR router
end note
deactivate neutron_l3_agent2
neutron_server -> nova_compute1
deactivate neutron_server
end

note over nova_compute1, nova_compute2
libvirt handles the live-migration
end note
note left of nova_compute1
live migration
succeeded
end note
	nova_compute1 -> nova_compute1 : post_live_migration

group port unplugged on host1
	nova_compute1 -> nova_compute1 : unplug_vifs()
activate neutron_l2_agent1

neutron_l2_agent1 -> neutron_server : RPC.call : update_device_list(devices_down : [port])
activate neutron_server

neutron_server -> neutron_server : update_port_status(DOWN)
neutron_server -> neutron_l2_agent1
deactivate neutron_l2_agent1

note over neutron_server
port status changed to
DOWN since port is bound
to host1
end note
deactivate neutron_server
end
	nova_compute1 -> nova_compute2 : RPC.cast : post_live_migration_at_destination()
deactivate nova_compute1
activate nova_compute2

nova_compute2 -> neutron_server : REST : update_port({'binding:host_id':'host2', 'binding:profile':{}})
activate neutron_server

neutron_server -> neutron_server : update_port_status(DOWN)
neutron_server -> neutron_l2_agent1 : RPC.cast(fanout) : port_update(port)
activate neutron_l2_agent1

destroy neutron_l2_agent1

note over neutron_l2_agent1
port not hosted
on host1
end note

neutron_server -> neutron_l2_agent2 : RPC.cast(fanout) : port_update(port)
activate neutron_l2_agent2
neutron_server -> nova_compute2
deactivate nova_compute2
deactivate neutron_server
group port_update processed by agent that really hosts the port
neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_server
neutron_server -> neutron_server : update_port_status(BUILD)
neutron_server -> neutron_l2_agent2
deactivate neutron_server
neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
neutron_server -> neutron_server : update_port_status(ACTIVE)
neutron_server -> neutron_l2_agent2
deactivate neutron_server
note over neutron_server
  port status changed to
  ACTIVE since port
  is now bound to host2
end note
deactivate neutron_l2_agent2
end group
@enduml

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1.285 cffi 1.12.2

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1.286 websocket-client 0.55.0

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1.287 python-ipaddress 1.0.16 2.el7

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1.288 python-slip 0.4.0 4.el7

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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmr <jolt@tuxbox.org>
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Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufkym1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the ntx2002 frontend driver
Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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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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TI DSP/Bridge Driver - Contributors File

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.

Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
Janet Head
Shivananda Hebbare
Hari Kanigeri
Tony Lindgren
Antonio Luna
Hari Nagalla
Nishanthen Menon
Ameya Palande
Vijay Pasam
Gilbert Pitney
Omar Ramirez Luna
Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only works together with the library.

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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.

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a) The modified work must itself be a software 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.

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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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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
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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
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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c) 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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/* 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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* 
* M. Welsh, 6 July 1996
* 
*/

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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1.297 init-system-helpers 1.48

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Upstream Authors: Douglas Gilbert <dgilbert@interlog.com>,
Bruce Allen <ballen@gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
Christophe Varoqui <christophe dot varoqui at free dot fr>,
Michael Weller <eowmob at exp-math dot uni-essen dot de>,
Eric Youngdale <eric at andante dot org>,

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Upstream Authors: Douglas Gilbert <dgilbert@interlog.com>,
Bruce Allen <ballen@gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
Christophe Varoqui <christophe dot varoqui at free dot fr>,
Michael Weller <eowmob at exp-math dot uni-essen dot de>,
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1.306 ustr 1.0.4-6.debian

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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.

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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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

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 to use the modified definitions.)
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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@enumerate a
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@end page
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Ty Coon, President of Vice
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@c @bye

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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.

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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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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
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These requirements apply to the modified work as a whole. If
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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.

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   Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.312 perl-plrpc 0.2020 14.el7

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From 29f5ad4805a04e4c4f18795f7153798c80a46ce Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=20P=C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Mon, 18 Nov 2013 12:20:52 +0100
Subject: [PATCH] Security notice on Storable and reply attack
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Signed-off-by: Petr Psá <ppisar@redhat.com>
---
README   | 16 +++++++++++++++++
lib/RPC/Plugin.pm | 15 +++++++++++++++++
Diff --git a/README b/README
index 8a68657..48a33e4 100644
--- a/README
+++ b/README
@@ -204,6 +204,7 @@ EXAMPLE
     require RPC::PlServer;
     require MD5;

+    package MD5_Server;  # Clients need to request application
+    # "MD5_Server"

@@ -245,6 +246,10 @@ SECURITY
 that I missed something. Security was a design goal, but not *the* design goal. (A well known problem ...)

+ Due to implementation of PIRPC, it's hard to use internal authentication mechanisms properly to achieve secured remote calls. Therefore users are advised to use an external authentication mechanism like TLS or IPsec.
+ I highly recommend the following design principles:

Protection against "trusted" users
@@ -263,6 +268,14 @@ SECURITY
    Think twice, before you give a client access to a method.

+ Use of Storable
+ Storable module used for serialization and deserialization
+ underneath is inherently insecure. Deserialized data can contain objects which lead to loading foreign modules and executing possible attached destructors. Do not accept host-based unauthorized connections. The Storable module is exercised before checking user password.
+ perlsec
    And just in case I forgot it: Read the "perlsec" man page. :-)

@@ -283,6 +296,9 @@ SECURITY
    authorized, you should switch to a user based key. See the DBI::ProxyServer for an example.

+ Please note PIRPC encryption does not protect from reply attacks.
+ You should have implement it on the application or the cipher level.

AUTHOR AND COPYRIGHT
The PlRPC-modules are

diff --git a/lib/RPC/PlServer.pm b/lib/RPC/PlServer.pm
index 10b56c9..ce38594 100644
--- a/lib/RPC/PlServer.pm
+++ b/lib/RPC/PlServer.pm
@@ -613,6 +613,10 @@ I did my best to avoid security problems, but it is more than likely,
that I missed something. Security was a design goal, but not *the*
design goal. (A well known problem ...)
+Due to implementation of PlRPC, it’s hard to use internal authentication
+mechanisms properly to achieve secured remote calls. Therefore users are
+advised to use an external authentication mechanism like TLS or IPsec.
+
I highly recommend the following design principles:

=head2 Protection against "trusted" users
@@ -637,6 +641,14 @@ object handle is valid before coercing a method on it.

Think twice, before you give a client access to a method.

+=item Use of Storable
+
+L<Storable> module used for serialization and deserialization underneath is
+inherently insecure. Deserialized data can contain objects which lead to
+loading foreign modules and executing possible attached destructors. Do not
+accept host-based unauthorized connections. The L<Storable> module is
+exercised before checking user password.
+
=item perlsec

And just in case I forgot it: Read the C<perlsec> man page. :-)  
@@ -667,6 +679,9 @@ login phase, where to use a host based key. As soon as the user
has authorized, you should switch to a user based key. See the
DBI::ProxyServer for an example.

+Please note PlRPC encryption does not protect from reply attacks. You should
+have implement it on the application or the cipher level.
+
=back

=head1 AUTHOR AND COPYRIGHT

--
1.8.3.1
1.313 perl-socket 2.010 4.el7

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1.314 gnupg 2.0.22 5.el7_5
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1.318 x-tools master 38d8bcf

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1.319 python-linecache2 1.0.0 1.el7ost

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnrinreston.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 (see http://www.digicool.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
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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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 licence, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for licence, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return
}
for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
        return body
    }
}
return body

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 != "" {
        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

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import ("strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it might contain a software license
var LicenseFilePrefix = []string{
    "licence", // UK spelling
    "license", // US spelling
    "copying",
    "unlicense",
    "copyright",
    "copyleft",
    "authors",
    "contributors",
}

// LegalFileSubstring are substrings that indicate the file is likely to contain some type of legal declaration. "legal" is often used that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
    "legal",
    "notice",
    "disclaimer",
    "patent",
}
"third-party",
"thirdparty",
}

// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}

// IsLegalFile returns true if the file is likely to contain some type
// of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Contains(lowerfile, substring) {
            return true
        }
    }
    return false
}

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Dave Cheney <dave@cheney.net>
Saulius Gurklys <s4uli5@gmail.com>
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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
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Brendan Tracey <tracey.brendan@gmail.com>
Bill Gray <wgray@gogray.com>
Bill Noon <noon.bill@gmail.com>
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ffjson

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Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
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Go support for Protocol Buffers - Google's data interchange format

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"`
  URL  string `json:"url,omitempty"`
}
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Denis Smirnov <denis.smirnov.91@gmail.com>
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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS
func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q     float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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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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1.324 grafana 6.1.4

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Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
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## go-diff - https://github.com/sergi/go-diff

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## golcs - https://github.com/yudai/golcs

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## cli.go - https://github.com/codegangsta/cli

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Dustin Sallings <dustin@spy.net>
Jason Mooberry <jasonmoo@me.com>
Sergey Shepelev <temotor@gmail.com>
Alex Edwards <ajmedwards@gmail.com>

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Glenn Lewis <gmlewis@google.com>
Ingo Oeser <nightlyone@googlemail.com>
James Hall <james.hall@shopify.com>
Johan Euphosine <proppy@google.com>
Jonathan Amsterdam <jba@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mario Castro <mariocaster@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Omar Jarjur <ojarjur@google.com>
Pawe Knap <pawelknap88@gmail.com>
Pter Szilgyi <peterke@gmail.com>
Sarah Adams <shadams@google.com>
Thanatat Tamtan <acoshift@gmail.com>
Toby Burress <kurin@google.com>
Tuo Shan <shantuo@google.com>
Tyler Treat <ttreat31@gmail.com>
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1.325 gssproxy 0.7.0 21.el7
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1.326 perl 5.24.1.orig
1.326.1 Available under license :
#!/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\textless now\textgreater 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) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$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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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.

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

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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-
built@perl.org>,"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
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resources:
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1.327 gzip 1.6-5.debian
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1.328 vishvananda-netns master 13995c7

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1.329 fluent-plugin-elasticsearch 2.11.5

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1.336 cracklib 2.9.0 11.el7

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^L

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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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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 debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

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

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

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

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

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

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

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.

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries 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: 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
Open Source Used In Cisco VIM 3.4.35720

> 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 didn't notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=20
=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
> > 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 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.
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.
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> > I am sympathetic. Guys, what do you reckon?
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> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

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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

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:
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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

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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:

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yes. go for it. thanks++
Nathan Neulinger is the only one who can actually make said change ...
-mike

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
    for <nneul@umr.edu>; Mon, 01 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon,  1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 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>
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

----------
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 under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

-- 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
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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.

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University of Missouri - Rolla Phone: (573) 341-6679
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Open Source Used In Cisco VIM 3.4.35726
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
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> 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
> >=0
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-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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I am sympathetic. Guys, what do you reckon?

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

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

Cheers,

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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 alemc@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 ESMTOP id I91Gxtrp020623 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 ESMTOP 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 11cOcX-0004QT-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.337 python2-zaqarclient 1.9.0 1.el7ost

1.337.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

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1.338 python-xstatic-jquery-quicksearch
2.0.3.1 2.el7ost
1.338.1 Available under license:

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1.339 fluent-plugin-prometheus 1.0.1
1.339.1 Available under license:

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Version 2.0, January 2004
http://www.apache.org/licenses/

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#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./').
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# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fhash.h
#
src/base/fhash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
1.355 tar 1.29b-1.1.debian

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1.362 strace 4.12 9.el7

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1.364 oci-systemd-hook 0.2.0

1.git05e6923.el7_6

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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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1.367 python2-glance-store 0.23.1
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1.368 python2-futures 3.1.1 2.1.el7ost

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1.369 falcon 1.4.1
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1.370 openssh 7.4p1 16.el7

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--- openssh-7.4p1/sftp-server.8.sftp-force-mode2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.82017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
+.Op Fl P Ar blacklisted_requests
+.Op Fl p Ar whitelisted_requests
+.Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
+.Ek
+.Nm
+.Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@
+ .Op Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
+.El
+.Pp
+On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@
static u_int version;
+ /* Version of client */
+ int permforce = 0;

/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
/*/ SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)
 Attrib a;
 char *name;
 int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+mode_t old_umask = 0;

 if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
   (r = sshbuf_get_u32(iqueue, &pflags)) != 0) /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
   debug3("request %u: open flags %d", id, pflags);
   flags = flags_from_portable(pflags);
   mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+if (permforce == 1) { /* Force perm if -m is set */
+  mode = permforcemode;
+  old_umask = umask(0); /* so umask does not interfere */
+}
   logit("open "/"%s" flags %s mode 0%o",
     name, string_from_portable(pflags), mode);
   if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
   }
   }
   }
+if (permforce == 1)
  +(void) umask(old_umask); /* restore umask to something sane */
  if (status != SSH2_FX_OK)
    send_status(id, status);
  free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
   fprintf(stderr,
     "usage: %s [-ehR] [-d start_directory] [-f log_facility] "
     "[-l log_level][n] [-P blacklisted_requests] "
-    "[-p whitelisted_requests] [-u umask]n"
+    "[-p whitelisted_requests] [-u umask] [-m force_file_perms]n"
     " %s -Q protocol_feature
",
     __progname, __progname);
 exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
 pw = pwcopy(user_pw);

 while (!skipargs && (ch = getopt(argc, argv,
+    "d:f:l:P:p:Q:u:m:cehR") != -1) { 

switch (ch) {
  case 'Q':
    if (strcasecmp(optarg, "requests") != 0) {
      fatal("Invalid umask \"%s\"", optarg);
      (void)umask((mode_t)mask);
      break;
    }
    case 'm':
      /* Force permissions on file received via sftp */
      permforce = 1;
      permforcemode = strtol(optarg, &cp, 8);
      if (permforcemode < 0 || permforcemode > 0777 ||
          *cp != '\0' || (permforcemode == 0 &&
          errno != 0))
        fatal("Invalid file mode \"%s\"", optarg);
      break;
    case 'h':
      sfput_server_usage();
      
    /*
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     */

    #ifndef HAVE_SETRESGID
    intsetresgid(gid_t, gid_t, gid_t);
    #endif
    #ifndef HAVE_SETRESUID
    intsetresuid(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 */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp */

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*
*/

#ifndef _BSD_WAITPID_H
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#define WIFSTOPPED(w) (_W_INT(w) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define 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 POLLRDGD 0x0040
#define POLLNORMPOLLRDGD

#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

* Foremost, OpenSSH from which this project is derived.
  * Jamie Beverly
  * Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
  * Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT
  * chrysn@fsfe.org
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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
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#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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1.374 python-pygments 1.4 10.el7

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(lp1
(ccopy_reg
    _reconstructor
p2
(cpygments.token
    _TokenType
p3
c__builtin__
tuple
p4
(S'Text'

p5
ttRp6
(dp7
'S'subtypes'

p8
c__builtin__
set
p9
((lp10
g2
(g3
g4
(g5
'S'Symbol'
p11
ttRp12
(dp13
g8
g9
((lp14
s'S'parent'
p15
g6
sbag2
(g3
g4
(g5
'S'Whitespace'
p16
ttRp17
(dp18
g8
g9
Open Source Used In Cisco VIM 3.4.36131
Open Source Used In Cisco VIM 3.4.36136
Open Source Used In Cisco VIM 3.4.36142
Open Source Used In Cisco VIM 3.4.36146
Open Source Used In Cisco VIM 3.4.36148
g9
((lp361
g24
ag349
ag167
ag6
ag45
ag212
ag138
ag233
ag353
ag346
atRp362
sg235
g236
sbsbV
tp363
agt24
V
V# New ports collection makefile for: python25
p364
tp365
agt6
V
tp366
agt24
V
V# Date created: 3 July 2003
p367
tp368
agt6
V
tp369
agt24
V
V# Whom: Hye-Shik Chang <perky@FreeBSD.org>
p370
tp371
agt6
V
tp372
agt24
V
Open Source Used In Cisco VIM 3.4.36155

Vlang
Vpython
ipv6
VMASTER_SITES
VPYTHON_MASTER_SITES
VMASTER_SITE_SUBDIR
Open Source Used In Cisco VIM 3.4.36157

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interpreted

V

object-oriented

V

Programming

V

COMMENT?
p457
tp458
a\(g6\)
V
tp459
a\(g6\)
V\language
p460
tp461
a\(g6\)
V\\u000a\u000a
p462
tp463
a\(g100\)
VDIST_SUBDIR
p464
tp465
a\(g353\)
V=
 tp466
a\(g6\)
V
 tp467
a\(g6\)
Vpython
 p468
tp469
a\(g6\)
V\\u000a
 tp470
a\(g100\)
VWRKSRC
 p471
tp472
a\(g353\)
V=
 tp473
a\(g6\)
V
 tp474
tp475
a\(g138\)
V$
 p476
tp477
a\(g100\)
VPYTHON_WRKSRC
 p478
Open Source Used In Cisco VIM 3.4.36159

V/

V/portbld.static

V/u000a

VPATCH_WRKSRC

V=

V

VPYTHON_WRKSRC

V

V

V=

V

V=

V

V=

V

V=

V

V

V

V/

V=

V

V

V

V
V\u000a
p520
atg100
VCONFIGURE_SCRIPT
p521
tp522
atg353
V=
tp523
atg6
V
tp524
atg6
V../configure
p525
tp526
atg6
V
tp527
atg24
V# must be relative\u000a
p528
tp529
atg100
VCONFIGURE_ENV
p530
tp531
atg353
V=
tp532
atg6
V
tp533
atg100
VOPT
p534
tp535
atg353
V=
tp536
atg255
V"${CFLAGS}"'
p537
tp538
atg6
V
tp539
atg100

Open Source Used In Cisco VIM 3.4.36161
VSVNVERSION
p540
tp541
atg353
V=
tp542
atg255
V"echo freebsd"
p543
tp544
atg6
\u0000

tp545
atg100
VMAKE_ENV
p546
tp547
atg353
V=
tp548
atg6
V

tp549
atg100
VVPATH
p550
tp551
atg353
V=
tp552
atg255
V"${PYTHON_WRKSRC}"p553
tp554
atg6
\u0000

tp555
atg100
VINSTALLS_SHLIB
p556
tp557
atg353
V=
tp558
atg6
V
tp559
atg6
Vyes
p560
tp561
a|g6
V\u000a0
tp562
a|g100
VINSTALL_TARGET
p563
tp564
a|g353
V=
tp565
a|g6
V
tp566
a|g6
Valtinstall
p567
tp568
a|g6
V\u000a0
tp569
a|g100
VMAN1
p570
tp571
a|g353
V=
tp572
a|g6
V
p573
tp574
a|g138
V$|
p575
tp576
a|g100
VPYTHON_VERSION
p577
tp578
a|g138
V}
tp579
a|g6
V.1
p580
Open Source Used in Cisco VIM 3.4.36164
tp601
a(g6
V=yes
p602
tp603
a(g6
V\u000a\u000a
p604
tp605
a(g100
VSHARED_WRKSRC
p606
tp607
a(g353
V=
tp608
a(g6
V
p609
a(g138
V${}

p610
tp611
a(g100
VPYTHON_WRKSRC
p612
tp613
a(g138
V}

p614
a(g6
V/portbld.shared
p615
tp616
a(g6
V\u000a
p617
a(g100
VPLIST
p618
tp619
a(g353
V=

p620
a(g6
V
p621
tp622
Open Source Used In Cisco VIM 3.4.36167
a(g6
V/share/examples/
p685
tp686
a(g138
V$

p687
ntp688
a(g100
VPYTHON_VERSION

p689
ntp690
a(g138
V$

tp691
a(g6
V\u000a

tp692
a(g100
VTOOLSDIR

p693
ntp694
a(g353
V$

tp695
a(g6
V

tp696
a(g138
V$

p697
ntp698
a(g100
VPREFIX

p699
ntp700
a(g138
V$

tp701
a(g6
V/share/
p702

ntp703
a(g138
V$

p704
ntp705
a(g100

Open Source Used In Cisco VIM 3.4.36169
Vsmtpd.py
p727
tp728
a(g6
V
tp729
a(g6
Vpython-config
p730
tp731
a(g6
V
tp732
a(g262
V\u005c\u000a
p733
tp734
a(g6
V
p735
tp736
a(g6
Vpython-shared-config
p737
tp738
a(g6
V\u0000a
tp739
a(g100
VBINLINKS_SUB
p740
tp741
a(g353
V=
tp742
a(g6
V
tp743
a(g6
V-e
p744
tp745
a(g6
V
tp746
a(g281
V's,smtpd.smtpd$[PYTHON_VER],'
V's.(idle|pydoc|python-shared|python),\u005c1${PYTHON_VER},'

V"Enable thread support"
HUGE_STACK_SIZE

"Use a larger thread stack"
Use UCS4 for unicode support

"Use python's internal malloc"
"Enable IPv6 support"
"Enable floating point exception handling"
include <bsd.port.pre.mk>

if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}:

VMLINKS =

V$PYTHON_VERSION

VIM_Version

V}

Open Source Used In Cisco VIM 3.4.36176
VIF_DEFAULT

# workaround for a bug in base curses.h.

VCFLAGS+
V\u000a

V\u000a

V CONFIGURE_ARGS+

V\u000a

V \u2013 with-threads

VCFLAGS+

V\u000a

V
if defined(WITHOUT_HUGE_STACK_SIZE)
V-DTHREAD_STACK_SIZE

else
V=0x20000

else
V=0x20000a

V

V

V

V

V
p937
p938
a(g6
V
p939
a(g6
VCFLAGS+
p940
tp941
a(g353
V=
tp942
a(g6
V
p943
tp944
a(g6
V-DTHREAD_STACK_SIZE
p945
tp946
a(g353
V=
tp947
a(g6
V0x100000
p948
tp949
a(g6
V\u000a
p950
tp951
a(g27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p951
tp952
a(g6
V
p953
a(g6
VCONFIGURE_ENV+
p954
tp955
a(g353
V=
tp956
a(g6
V
p957
tp958
a(g100
VLDFLAGS
p959
t960
a(g353
V=
t961
a(g255
V"${PTHREAD_LIBS} ${LDFLAGS}"
p962
t963
a(g6
V\u000a
t964
a(g27
V.else\u000a
p965
t966
a(g6
V
t967
a(g6
VCONFIGURE_ARGS+
p968
t969
a(g353
V=
t970
a(g6
V
t971
a(g6
V--without-threads
p972
t973
a(g6
V\u000a
t974
a(g27
V.if defined(LDFLAGS)\u000a
p975
t976
a(g6
V
t977
a(g6
VCONFIGURE_ENV+
p978
V=
tp1000
a(g6
V
tp1001
a(g6
V--enable-unicode
p1002
tp1003
a(g353
V=
tp1004
a(g6
Vucs4
p1005
tp1006
a(g6
\u000a
V\u000a
p1007
a(g27
V.endif\u000a
p1008
tp1009
a(g6
V\u000a
p1010
a(g27
V.if defined(WITHOUT_PYTHON)\u000a
p1011
tp1012
a(g6
V
tp1013
a(g6
VCONFIGURE_ARGS+
p1014
tp1015
a(g353
V=
tp1016
a(g6
V
p1017
tp1018
a(g6
V--without-pymalloc
p1019
tp1020
if \{ARCH\} == i386

VX86_ONLY

V

VPLIST_SUB+

""

Open Source Used In Cisco VIM 3.4.36185
a\(g6\)
VPLIST_SUB+
p1041
tp1042
a\(g353\)
V=
tp1043
a\(g6\)
V
tp1044
a\(g100\)
VX86_ONLY
p1045
tp1046
a\(g353\)
V=
tp1047
a\(g255\)
V"@comment "
p1048
tp1049
a\(g6\)
V\u000a
tp1050
a\(g27\)
V.endif\u000a
p1051
tp1052
a\(g6\)
V
tp1053
a\(g27\)
V.if $\{ARCH\} == amd64 || $\{ARCH\} == ia64 || $\{ARCH\} == sparc64 || $\{ARCH\} == alpha\u000a
p1054
tp1055
a\(g6\)
V
tp1056
a\(g6\)
VPLIST_SUB+
p1057
tp1058
a\(g353\)
V=
tp1059
a\(g6\)
V
p1060
V.endif\u000a
p1082
tp1083
at\g6
V
\tp1084
at\g27
V.if $\{ARCH\} == \text{sparc64}\u000a
p1085
tp1086
at\g6
V
\tp1087
at\g6
VCFLAGS+
p1088
tp1089
at\g353
V=
\tp1090
at\g6
V
\tp1091
\tp1092
at\g6
V-\text{DPYTHON_DEFAULT_RECURSION_LIMIT}
p1093
tp1094
at\g353
V=
\tp1095
at\g6
V900
\tp1096
\tp1097
at\g6
V\u000a
\tp1098
at\g27
V.endif\u000a
p1099
tp1100
at\g6
V\u000a
\tp1101
at\g27
V.if !\text{exists(/usr/bin/ypcat)} # the world with NO_NIS\u000a
p1102
Open Source Used In Cisco VIM 3.4.36190

tp1123
g353
V=
tp1124
g55
V=""
tp1125
tp1126
g6
V\u000a
\u000a
p1128
tp1129
g6
V\u000a
\u000a
p1130
g27
V.endif\u000a
p1128
tp1129
g6
V\u000a
\u000a
p1130
g27
V.if !defined(WITHOUT_IPV6)\u000a
p1131
tp1132
g6
V
\u000a
p1133
g6
V
p1134
g6
V
p1135
g353
V=
tp1136
g6
V
\u000a
p1137
g6
V--enable-ipv6
p1138
tp1139
g6
V\u000a
\u000a
p1140
g27
V.else\u000a
p1141
tp1142
g6
V
tp1143
a(g6
VCONFIGURE_ARGS+
p1144
tp1145
a(g353
V=
tp1146
a(g6
V
tp1147
a(g6
V--disable-ipv6
p1148
tp1149
a(g6
V\u000a
tp1150
a(g27
V.endif\u000a
p1151
tp1152
a(g6
V\u000a
 tp1153
a(g27
V.if defined(WITH_FPECTL)\u000a
p1154
tp1155
a(g6
V
tp1156
a(g6
VCONFIGURE_ARGS+
p1157
tp1158
a(g353
V=
tp1159
a(g6
V
tp1160
a(g6
V--with-fpectl
p1161
tp1162
a(g6
V\u000a
V.endif

V.if ${OSVERSION} >= 700000

Vendif

VPLATFORMS

V.if ${OSVERSION} >= 600000

V.elif ${OSVERSION} >= 600000

V.elif ${OSVERSION} >= 600000
```plaintext
V
tpl1184
a(g100
VPLATFORMS
pt1185
tpl1186
a(g353
V=
tpl1187
a(g6
Vplat-freebsd4
pt1188
tpl1189
a(g6
V
tpl1190
a(g6
Vplat-freebsd5
pt1191
tpl1192
a(g6
V
tpl1193
a(g6
Vplat-freebsd7
pt1194
tpl1195
a(g6
Vu000a
pt1196
a(g27
V.else\u000a
pt1197
a(g6
V
tpl1199
a(g100
VPLATFORMS
pt1200
tpl1201
a(g353
V=
tpl1202
a(g6
Vplat-freebsd4
pt1203
tpl1204
```
Open Source Used In Cisco VIM 3.4.36195
tp1247
a(g6
V
tp1248
a(g281
V1s,^.*$!,#!${PREFIX}/bin/${PYTHON_VERSION},'
p1249
tp1250
a(g6
V
tp1251
a(g262
V\u0005\u000a
p1252
tp1253
a(g6
V
p1254
tp1255
a(g138
V${
p1256
tp1257
a(g100
VPATCH_WRKSRC
p1258
tp1259
a(g138
V}
tp1260
a(g6
V/Tools/scripts/pydoc
p1261
tp1262
a(g6
V
tp1263
a(g6
V$
tp1264
a(g6
V
p1265
a(g138
V${
p1266
tp1267
a(g100

Open Source Used In Cisco VIM 3.4.36196
p1289
tp1290
a(g138
V${

p1291

p1292

a(g100
VPATCH_WRKDIR

p1293

p1294

a(g138
V}tp1295

a(g6
V/Tools/scripts/idle

p1296

p1297

a(g6
V

p1298

a(g6
V>

tp1299

a(g6
V

p1300

a(g138
V${

p1301

p1302

a(g100
VWRKDIR

p1303

p1304

a(g138
V}

p1305

a(g6
V/idle2.5

p1306

p1307

a(g6
V\u000a

p1308

p1309

a(g138
V${

p1310
Open Source Used In Cisco VIM 3.4.36199
Open Source Used In Cisco VIM 3.4.36201
VREINPLACE_CMD
p1376
p1377
a(g138
V)

a(g6
V
p1379
a(g6
V-e
p1380
tp1381
a(g6
V
p1382
a(g262
V\u0005c\u0000a
p1383
tp1384
a(g6
V
p1385
tp1386
a(g281
V's|^
(prefixes = .\u0005c\u0005c\$\u0005c1, \"$\{X11BASE\}\"))
p1387
tp1388
a(g6
V
p1389
a(g262
V\u0005c\u0000a
p1390
tp1391
a(g6
V
p1392
tp1393
a(g138
V\$}
p1394
tp1395
a(g100
VPATCH_WRKSRCP1396
tp1397
a(g138
Open Source Used In Cisco VIM 3.4.36203
V's|\u005c(INSTALL_SCRIPT.*\u005c)python-config$$|#port \u005c1|'

\u005c\u000c\u000a

VPATCH_WRKSRC

V/Maekfile.pre.in

V\u000a\u000a

VSED
a[g138
V]
tp1465
a[g6
V
tp1466
a[g6
V-e
tp1467
tp1468
a[g6
V
tp1469
a[g281
V's|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}]'
tp1470
tp1471
a[g6
V
tp1472
a[g262
V\u0005c\u000a
p1473
tp1474
a[g6
V
p1475
tp1476
a[g138
V${

p1477
tp1478
a[g100
VPATCH_WRKSRCP
p1479
tp1480
a[g138
V]
tp1481
a[g6
V/Misc/python-config.in
p1482
tp1483
a[g6
V

tp1484
a[g6
V>
Open Source Used In Cisco VIM 3.4.36209

```bash
if defined(WITH_FPECTL) && ${ARCH} == i386
```
Open Source Used In Cisco VIM 3.4.36210
V
tp1570
a(g255
V"fpectl fpectlmodule.c"
p1571
tp1572
a(g6
V
tp1573
a(g6
V>>
p1574
tp1575
a(g6
V
tp1576
a(g138
VS{
p1577
tp1578
a(g100
VWRKSRC
p1579
tp1580
a(g138
V}
tp1581
a(g6
V/Modules/Setup.dist
p1582
tp1583
a(g6
V\\u000a
tp1584
a(g27
V.endif\\u000a
p1585
tp1586
a(g6
V\\u000a
tp1587
a(g6
Vpost-configure:
p1588
tp1589
a(g6
V\\u000a
p1590
Open Source Used In Cisco VIM 3.4.36215

V\'s, ^\u005c(LIBRARY=\u005c1libpython\$\$\(VERSION\$).so,'
Open Source Used In Cisco VIM 3.4.36218
V
ap1738
ag138
VS{
p1739
tp1740
ag100
VSHARE_WKSRC
p1741
tp1742
ag138
V}
tp1743
ag6
V/Makefile
p1744
tp1745
ag6
V\u000a\u000a
p1746
tp1747
ag6
Vpre-build:
p1748
tp1749
ag6
V\u000a
p1750
tp1751
ag84
Vcd
p1752
tp1753
ag6
V
tp1754
ag138
VS{
p1755
tp1756
ag100
VSHARE_WKSRC
p1757
tp1758
ag138
V}
tp1759
ag6
p1843
tp1844
a(g100
VPYTHON_VERSION
p1845
tp1846
a(g212
V:
tp1847
a(g100
VS
tp1848
a(g212
V/thon/thon-shared/

p1849
tp1850
a(g138
V}
tp1851
a(g6
V\u000a\u000a

p1852
tp1853
a(g6
Vpre-su-install:

p1854
tp1855
a(g6
V\u000a

p1856
tp1857
a(g27
V.for platform in $\{PLATFORMS}\u000a

p1858
tp1859
a(g138
V$

p1860
tp1861
a(g100
VMKD

p1862
tp1863
a(g138
V$

p1864
a(g6
V
tp1865
a(g138
V${}
)p1866
tp1867
a(g100
VPYTHONPREFIX_LIBDIR
)p1868
tp1869
a(g138
V)
tp1870
a(g6
V/
tp1871
a(g138
V${}
p1872
tp1873
a(g100
Vplatform
)p1874
tp1875
a(g138
V)
tp1876
a(g6
Vu000a
)p1877
a(g27
V.for file in IN.py regen\u000a
)p1878
tp1879
a(g6
V
tp1880
a(g138
V${}
p1881
tp1882
a(g100
VINSTALL_DATA
)p1883
tp1884
a(g138
V)
V\'{ print $0; } \u0005c\u00000a/LIBDIR.\*\u0005c.py$/ && !/\u0005c/bad/ { print $0 "o"; print $0 "c"; }\'

@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\u0000a
post-install:

@# install config providers

VINSTALL_SCRIPT
Open Source Used In Cisco VIM 3.4.36235

V$OPEN_SOURC

VWRKDIR

VPYTHON_VERSION

VPREFIX

V/bin

V/config

V-
Open Source Used In Cisco VIM 3.4.36237

```
V|p2114
a|g6
V-config
p2115
tp2116
a|g6
V
tp2117
a|g138
V$|
p2118
tp2119
a|g100
VPREFIX
p2120
tp2121
a|g138
V|
tp2122
a|g6
V/bin
p2123
tp2124
a|g6
V\u0000a\u0000a
p2125
tp2126
a|g24
V@# shared version of executable and library\u0000a
p2127
tp2128
a|g6
V
tp2129
a|g138
V$|
p2130
tp2131
a|g100
VINSTALL_PROGRAM
p2132
tp2133
a|g138
V|
tp2134
```
Open Source Used In Cisco VIM 3.4.36238
Open Source Used In Cisco VIM 3.4.36239
VS{
p2200
tp2201
atg100
VPYTHON_VERSION
p2202

tp2203
atg138
V}
tp2204
atg6
V.so
p2205

tp2206
atg6
V.so000a
p2207

tp2208
atg138
VS{
p2209

tp2210
atg100
VLN
p2211

tp2212
atg138
V}
tp2213
atg6
V

tp2214
atg6
V.sf
p2215

tp2216
atg6
V

tp2217
atg138
VS{
p2218

tp2219
atg100
VPREFIX
p2220

tp2221
atg138

---

Open Source Used In Cisco VIM 3.4.36241
VMKDIR
p2330
tp2331
at(g138
V}
tp2332
at(g6
V
tp2333
at(g138
V$

p2334
tp2335
at(g100
VMANPREFIX
p2336
tp2337
at(g138
V}
tp2338
at(g6
V/man/man1
p2339
tp2340
at(g6
V/u000a
p2341
tp2342
at(g138
V$

p2343
tp2344
at(g100
VINSTALL_MAN
p2345
tp2346
at(g138
V}
tp2347
at(g6
V
tp2348
at(g138
V$

p2349
tp2350
at(g100
VPYTHON_WRK SRC
Open Source Used In Cisco VIM 3.4.36248

p2351
p2352
a[g138
V]

p2353
a[g6
V/Misc/python.man

p2354

p2355
a[g6
V

p2356
a[g262
V\u005c\u000a

p2357

p2358
a[g6
V

p2359
p2360
a[g138
V$

p2361

p2362
a[g100
VMANPREFIX

p2363

p2364
a[g138
V]

p2365
a[g6
V/man/man1/

p2366

p2367
a[g138
V$

p2368

p2369
a[g100
VPYTHON_VERSION

p2370

p2371
a[g138
V]

p2372
a[g6
V.1
V\u000aV
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
V
Open Source Used In Cisco VIM 3.4.36252
Open Source Used In Cisco VIM 3.4.36256
Open Source Used In Cisco VIM 3.4.36260
include <bsd.port.post.mk>
1.375 gdbm 1.10 8.el7

1.375.1 Available under license:

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1.392 python2-neutron-lib 1.13.0 1.el7ost

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```
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-------  Heading 1
~~~~~~~  Heading 2
++++++++  Heading 3
#####    Heading 4
(Avoid deeper levels because they do not render well.)
```

API Converters
Definitions for REST API attributes, can include conversion methods to help normalize user input or transform the input into a form that can be used.

Defining A Converter Method
---------------------------

By convention, the name should start with ``convert_to_``, and will take a single argument for the data to be converted. The method should return the converted data (which, if the input is None, and no conversion is performed, the implicit None returned by the method may be used). If the conversion is impossible, an InvalidInput exception should be raised, indicating what is wrong. For example, here is one that converts a variety of user inputs to a boolean value.

```python
def convert_to_boolean(data):
    if isinstance(data, six.string_types):
        val = data.lower()
        if val == "true" or val == "1":
            return True
        if val == "false" or val == "0":
            return False
    elif isinstance(data, bool):
        return data
    elif isinstance(data, int):
        if data == 0:
            return False
        elif data == 1:
            return True
    msg = _("'%s' cannot be converted to boolean") % data
    raise n_exc.InvalidInput(error_message=msg)
```

Using Validators
----------------

In client code, the conversion can be used in a REST API definition, by specifying the name of the method as a value for the 'convert_to' key on an attribute. For example:

```python
'admin_state_up': {'allow_post': True, 'allow_put': True,
```
Here, the admin_state_up is a boolean, so the converter is used to take user's (string) input and transform it to a boolean.

Test The Validator
------------------

Do the right thing, and make sure you've created a unit test for any converter that you add to verify that it works as expected.

IPv6 canonical address formatter
--------------------------------

There are several ways to display an IPv6 address, which can lead to a lot of confusion for users, engineers and operators alike. To reduce the impact of the multifaceted style of writing an IPv6 address, it is proposed that the IPv6 address in Neutron should be saved in the canonical format.

If a user passes an IPv6 address, it will be saved in the canonical format.

The full document is found at: http://tools.ietf.org/html/rfc5952

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==================== Neutron Lib Internals
.. toctree::
:maxdepth: 3

api_attributes
api_extensions
api_converters
api_validators
callbacks

Review Guidelines

When reviewing neutron-lib changes, please be aware:

* When code is moved from neutron, please evaluate with the following criteria:

  - Is all of the code shared? Don’t move neutron-only code.
  - Is the interface good, or does it need to be refactored? If refactoring is required it must be done before the public interface is released to PyPI as once released it must follow our `conventions <./conventions.html>`_.
  - Does it need new tests, specifically around the interface? We want a global unit coverage greater than 90%, and a per-module coverage greater than 80%. If neutron does not yet have a test, it needs to be added. Note that tests on things like constants are uninteresting, but any code or interface should have a unit test, if you cannot tell for sure that it is not going to be traversed in some alternative way (e.g. tempest/functional coverage).
  - Do the public APIs have their parameters and return values documented using reStructuredText docstring format (see below)?
  - In certain cases, it may be beneficial to determine how the neutron-lib code changes impact neutron `master`. This can be done as follows:

    - Publish a `Do Not Merge` dummy patch to neutron that uses the code changes proposed (or already in) neutron-lib. Make sure to mark this neutron change as a 'DNM' (or 'WIP') and use -1 for workflow to indicate.
    - Publish a change to neutron-lib that uses `Depends-On:` for the dummy change in neutron; this pulls the neutron dummy change into the neutron-lib gate job. For example `386846 <https://review.openstack.org/386846/>`_ uses a dummy neutron-lib patch to test code that already exists in neutron-lib `master` whereas `346554 <https://review.openstack.org/#/c/346554/13>`_ tests the neutron-lib patch’s code itself.
    - View neutron-lib gate job results and repeat as necessary.

* Public APIs should be documented using `reST style docstrings <https://www.python.org/dev/peps/pep-0287/>`_
that include an overview as well as parameter and return documentation. The format of docstrings can be found in the `OpenStack developer hacking docs <https://docs.openstack.org/hacking/latest/user/hacking.html#docstrings>`_. Note that public API documentation is a bonus, not a requirement.

* Once public classes and methods are pushed to PyPI as part of a neutron-lib release, they must not be destructively changed without following the full OpenStack deprecation path.

For example, do not:

- Change names of classes or methods
- Reorder method arguments
- Change side effects

Alternatives:

- Add a second method with the new signature
- Add keyword arguments

The above implies that if you add something, we are stuck with that interface for a long time, so be careful.

* Removing the code from neutron can be done without a temporary `debtcollector <https://docs.openstack.org/debtcollector/latest/>`_ notice by following the steps described in the 'Consume' phase of the `contributing doc <./contributing.html>`_.

* Any code that imports/uses the following python modules should not be moved into neutron-lib:

  - eventlet

* With respect to `Oslo config options <https://docs.openstack.org/oslo.config/latest/>`_:

  - Config options should only be included in neutron-lib when the respective functionality that uses the options lives in neutron-lib. In this case the options will need to be exposed as entry points for `config generation <https://docs.openstack.org/oslo.config/latest/cli/generator.html>`_.
  - Common functionality in neutron-lib that accesses config values should assume the caller has registered them and document such in the docstring for the respective functionality in neutron-lib.

..

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Convention for heading levels in Neutron devref:

========== Heading 0 (reserved for the title in a document)
------- Heading 1
~~~~~~~ Heading 2
+++++++ Heading 3
~~~~~ Heading 4
(Avoid deeper levels because they do not render well.)

Neutron Callback System

In Neutron, core and service components may need to cooperate during the execution of certain operations, or they may need to react upon the occurrence of certain events. For instance, when a Neutron resource is associated to multiple services, the components in charge of these services may need to play an active role in determining what the right state of the resource needs to be.

The cooperation may be achieved by making each object aware of each other, but this leads to tight coupling, or alternatively it can be achieved by using a callback-based system, where the same objects are allowed to cooperate in a loose manner.

This is particularly important since the spin off of the advanced services like VPN, Firewall and Load Balancer, where each service's codebase lives independently from the core and from one another. This means that the tight coupling is no longer a practical solution for object cooperation. In addition to this, if more services are developed independently, there is no viable integration between them and the Neutron core. A callback system, and its registry, tries to address these issues.

In object-oriented software systems, method invocation is also known as message passing: an object passes a message to another object, and it may or may not expect a message back. This point-to-point interaction can take place between the parties directly involved in the communication, or it can happen via an intermediary. The intermediary is then in charge of keeping track of who is interested in the messages and in delivering the messages forth and back, when required. As mentioned earlier, the use of an intermediary has the benefit of decoupling the parties involved in the communications, as now they only need to know about the intermediary; the other benefit is that the use of an intermediary opens up the possibility of multiple party communication: more than one object can express interest in
receiving the same message, and the same message can be delivered to more than one object. To this aim, the intermediary is the entity that exists throughout the system lifecycle, as it needs to be able to track whose interest is associated to what message.

In a design for a system that enables callback-based communication, the following aspects need to be taken into account:

* how to become consumer of messages (i.e. how to be on the receiving end of the message);
* how to become producer of messages (i.e. how to be on the sending end of the message);
* how to consume/produce messages selectively;

Translate and narrow this down to Neutron needs, and this means the design of a callback system where messages are about lifecycle events (e.g. before creation, before deletion, etc.) of Neutron resources (e.g. networks, routers, ports, etc.), where the various parties can express interest in knowing when these events for a specific resources take place.

Rather than keeping the conversation abstract, let us delve into some examples, that would help understand better some of the principles behind the provided mechanism.

Event payloads
--------------

The use of `**kwargs` for callback event payloads is deprecated (slated to be removed in 'Queens') in favor of standardized event payload objects as described herein.

The event payloads are defined in `neutron_lib.callbacks.events` and define a set of payload objects based on consumption pattern. The following event objects are defined today:

- `EventPayload`: Base object for all other payloads and define the common set of attributes used by events. The `EventPayload` can also be used directly for basic payloads that don't need to transport additional values.
- `DBEventPayload`: Payloads pertaining to database callbacks. These objects capture both the pre and post state (among other things) for database changes.
- `APIEventPayload`: Payloads pertaining to API callbacks. These objects capture details relating to an API event; such as the method name and API action.

Each event object is described in greater detail in its own subsection below.

For backwards compatibility the callback registry and manager still provide the `notify` method for passing `**kwargs`, but also provide the `publish` method for passing an event object.
Event objects: EventPayload
~~~~~~~~~~~~~~~~~~~~~~~~~~~~

The `EventPayload` object is the parent class of all other payload objects and defines the common set of attributes applicable to most events. For example, the `EventPayload` contains the `context`, `request_body`, etc. In addition, a `metadata` attribute is available to transport event data that's not yet standardized. While the `metadata` attribute is there for use, it should only be used in special cases like phasing in new payload attributes.

Payload objects also transport resource state via the `states` attribute. This collection of resource objects tracks the state changes for the respective resource related to the event. For example database changes might have a pre and post updated resource that's used as `states`. Tracking states allows consumers to inspect the various changes in the resource and take action as needed; for example checking the pre and post object to determine the delta. State object types are event specific; API events may use python `dicts` as state objects whereas database events use resource/OVO model objects.

Note that states as well as any other event payload attributes are not copied; subscribers obtain a direct reference to event payload objects (states, metadata, etc.) and should not be modified by subscribers.

Event objects: DBEventPayload
~~~~~~~~~~~~~~~~~~~~~~~~~~~~

For datastore/database events, `DBEventPayload` can be used as the payload event object. In addition to the attributes inherited from `EventPayload`, database payloads also contain an additional `desired_state`. The desired state is intended for use with pre create/commit scenarios where the publisher has a resource object (yet to be persisted) that's used in the event payload.

These event objects are suitable for the standard before/after database events we have today as well as any that might arise in the future.

Example usage:

```
# BEFORE_CREATE:
DBEventPayload(context,
               request_body=params_of_create_request,
               resource_id=id_of_resource_if_avail,
               desired_state=db_resource_to_commit)
```

```
# AFTER_CREATE:
```
DBEventPayload(context,
    request_body=params_of_create_request,
    states=[my_new_copy_after_create],
    resource_id=id_of_resource)

# PRECOMMIT_CREATE:
DBEventPayload(context,
    request_body=params_of_create_request,
    resource_id=id_of_resource_if_avail,
    desired_state=db_resource_to_commit)

# BEFORE_DELETE:
DBEventPayload(context,
    states=[resource_to_delete],
    resource_id=id_of_resource)

# AFTER_DELETE:
DBEventPayload(context,
    states=[copy_of_deleted_resource],
    resource_id=id_of_resource)

# BEFORE_UPDATE:
DBEventPayload(context,
    request_body=body_of_update_request,
    states=[original_db_resource],
    resource_id=id_of_resource
    desired_state=updated_db_resource_to_commit)

# AFTER_UPDATE:
DBEventPayload(context,
    request_body=body_of_update_request,
    states=[original_db_resource, updated_db_resource],
    resource_id=id_of_resource)

Event objects: APIEventPayload
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

For API related callbacks, the `APIEventPayload` object can be used to transport callback payloads. For example, the REST API resource controller can use API events for pre/post operation callbacks.

In addition to transporting all the attributes of `EventPayload`, the `APIEventPayload` object also includes the `action`, `method_name` and `collection_name` payload attributes permitting API components to pass along API controller specifics.

Sample usage::
# BEFORE_RESPONSE for create:
APIEventPayload(context, notifier_method, action,
    request_body=req_body,
    states=[create_result],
    collection_name=self._collection_name)

# BEFORE_RESPONSE for delete:
APIEventPayload(context, notifier_method, action,
    states=[copy_of_deleted_resource],
    collection_name=self._collection_name)

# BEFORE_RESPONSE for update:
APIEventPayload(context, notifier_method, action,
    states=[original, updated],
    collection_name=self._collection_name)

Subscribing to events
----------------------

Imagine that you have entity A, B, and C that have some common business over router creation. A wants to tell B and C that the router has been created and that they need to get on and do whatever they are supposed to do. In a callback-less world this would work like so:

```
# A is done creating the resource
# A gets hold of the references of B and C
# A calls B
# A calls C
B->my_random_method_for_knowing_about_router_created()
C->my_random_very_difficult_to_remember_method_about_router_created()
```

If B and/or C change, things become sour. In a callback-based world, things become a lot more uniform and straightforward:

```
# B and C ask I to be notified when A is done creating the resource
# ...
# A is done creating the resource
# A gets hold of the reference to the intermediary I
# A calls I
I->notify()
```

Since B and C will have expressed interest in knowing about A's business, 'I' will
deliver the messages to B and C. If B and C changes, A and 'I' do not need to change.

In practical terms this scenario would be translated in the code below:

```python
from neutron_lib.callbacks import events
from neutron_lib.callbacks import resources
from neutron_lib.callbacks import registry

def callback1(resource, event, trigger, payload):
    print('Callback1 called by trigger: ', trigger)
    print('payload: ', payload)

def callback2(resource, event, trigger, payload):
    print('Callback2 called by trigger: ', trigger)
    print('payload: ', payload)

# B and C express interest with I
registry.subscribe(callback1, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(callback2, resources.ROUTER, events.BEFORE_CREATE)
print('Subscribed')

# A notifies
def do_notify():
    registry.publish(resources.ROUTER, events.BEFORE_CREATE,
                     do_notify, events.EventPayload(None))

print('Notifying...')
do_notify()

The output is:

```
> Subscribed
> Notifying...
> Callback2 called by trigger: <function do_notify at 0x7f2a5d663410>
> payload: <neutron_lib._callbacks.events.EventPayload object at 0x7ff9ed253510>
> Callback1 called by trigger: <function do_notify at 0x7f2a5d663410>
> payload: <neutron_lib._callbacks.events.EventPayload object at 0x7ff9ed253510>
```

Thanks to the intermediary existence throughout the life of the system, A, B, and C
are flexible to evolve their internals, dynamics, and lifecycles.

Subscribing and aborting events

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

Interestingly in Neutron, certain events may need to be forbidden from happening due to the nature of the resources involved. To this aim, the callback-based mechanism has been designed to support a use case where, when callbacks subscribe to specific events, the action that results from it, may lead to the propagation of a message back to the sender, so that it itself can be alerted and stop the execution of the activity that led to the message dispatch in the first place.

The typical example is where a resource, like a router, is used by one or more high-level service(s), like a VPN or a Firewall, and actions like interface removal or router destruction cannot not take place, because the resource is shared.

To address this scenario, special events are introduced, 'BEFORE_*' events, to which callbacks can subscribe and have the opportunity to 'abort', by raising an exception when notified.

Since multiple callbacks may express an interest in the same event for a particular resource, and since callbacks are executed independently from one another, this may lead to situations where notifications that occurred before the exception must be aborted. To this aim, when an exception occurs during the notification process, an abort_* event is propagated immediately after. It is up to the callback developer to determine whether subscribing to an abort notification is required in order to revert the actions performed during the initial execution of the callback (when the BEFORE_* event was fired). Exceptions caused by callbacks registered to abort events are ignored. The snippet below shows this in action:

```
from neutron_lib.callbacks import events
from neutron_lib.callbacks import exceptions
from neutron_lib.callbacks import resources
from neutron_lib.callbacks import registry

def callback1(resource, event, trigger, payload=None):
    raise Exception('I am failing!')

def callback2(resource, event, trigger, payload=None):
    print('Callback2 called by %s on event %s' % (trigger, event))

registry.subscribe(callback1, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(callback2, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(callback2, resources.ROUTER, events.ABORT_CREATE)
print('Subscribed')
```
def do_notify():
    registry.publish(resources.ROUTER, events.BEFORE_CREATE, do_notify)

print('Notifying...')
try:
    do_notify()
except exceptions.CallbackFailure as e:
    print("Error: %s" % e)

The output is:

::

> Subscribed
> Notifying...
> Callback2 called by <function do_notify at 0x7f3194c7f410> on event before_create
> Callback2 called by <function do_notify at 0x7f3194c7f410> on event abort_create
> Error: Callback __main__.callback1 failed with "I am failing!"

In this case, upon the notification of the BEFORE_CREATE event, Callback1 triggers an exception that can be used to stop the action from taking place in do_notify(). On the other end, Callback2 will be executing twice, once for dealing with the BEFORE_CREATE event, and once to undo the actions during the ABORT_CREATE event. It is worth noting that it is not mandatory to have the same callback register to both BEFORE_* and the respective ABORT_* event; as a matter of fact, it is best to make use of different callbacks to keep the two logic separate.

Unsubscribing to events
-----------------------

There are a few options to unsubscribe registered callbacks:

* clear(): it unsubscribes all subscribed callbacks: this can be useful especially when winding down the system, and notifications shall no longer be triggered.
* unsubscribe(): it selectively unsubscribes a callback for a specific resource's event. Say callback C has subscribed to event A for resource R, any notification of event A for resource R will no longer be handed over to C, after the unsubscribe() invocation.
* unsubscribe_by_resource(): say that callback C has subscribed to event A, B, and C for resource R, any notification of events related to resource R will no longer be handed over to C, after the unsubscribe_by_resource() invocation.
* unsubscribe_all(): say that callback C has subscribed to events A, B for resource R1, and events C, D for resource R2, any notification of events pertaining resources R1 and R2 will no longer be handed over to C, after the unsubscribe_all() invocation.

The snippet below shows these concepts in action:
from neutron_lib.callbacks import events
from neutron_lib.callbacks import exceptions
from neutron_lib.callbacks import resources
from neutron_lib.callbacks import registry

def callback1(resource, event, trigger, payload=None):
    print('Callback1 called by %s on event %s for resource %s' % (trigger, event, resource))

def callback2(resource, event, trigger, payload=None):
    print('Callback2 called by %s on event %s for resource %s' % (trigger, event, resource))

registry.subscribe(callback1, resources.ROUTER, events.BEFORE_READ)
registry.subscribe(callback1, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(callback1, resources.ROUTER, events.AFTER_DELETE)
registry.subscribe(callback1, resources.PORT, events.BEFORE_UPDATE)
registry.subscribe(callback2, resources.ROUTER_GATEWAY, events.BEFORE_UPDATE)
print('Subscribed')

def do_notify():
    print('Notifying...')
    registry.publish(resources.ROUTER, events.BEFORE_READ, do_notify)
    registry.publish(resources.ROUTER, events.BEFORE_CREATE, do_notify)
    registry.publish(resources.ROUTER, events.AFTER_DELETE, do_notify)
    registry.publish(resources.PORT, events.BEFORE_UPDATE, do_notify)
    registry.publish(resources.ROUTER_GATEWAY, events.BEFORE_UPDATE, do_notify)

do_notify()
registry.unsubscribe(callback1, resources.ROUTER, events.BEFORE_READ)
do_notify()
registry.unsubscribe_by_resource(callback1, resources.PORT)
do_notify()
registry.unsubscribe_all(callback1)
do_notify()
registry.clear()
do_notify()

The output is:

::

Subscribed
Subscribing events using registry decorator
-------------------------------------------

Now neutron-lib supports using registry decorators to subscribe events.
There are two decorators `has_registry_receivers`, which sets up the
class `__new__` method to subscribe the bound method in the callback registry
after object instantiation. `receives` use to decorate callback method
which must defines the resource and events.
Any class use `receives` must be decorated with `has_registry_receivers`.

Testing with callbacks
-----------------------

A python `fixture <https://pypi.python.org/pypi/fixtures>`_ is provided for implementations that need to
unit test and mock the callback registry. This can be used for example, when your code publishes callback events
that you need to verify. Consumers can use `neutron_lib.tests.unit.callbacks.base.CallbackRegistryFixture`
in their unit test classes with the `useFixture()` method passing along a `CallbackRegistryFixture` instance.
If mocking of the actual singleton callback manager is necessary, consumers can pass a value to
with the `callback_manager` kwarg. For example::

def setUp(self):
    super(MyTestClass, self).setUp()
    self.registry_fixture = callback_base.CallbackRegistryFixture()
    self.useFixture(self.registry_fixture)
    # each test now uses an isolated callback manager
FAQ
---

Can I use the callbacks registry to subscribe and notify non-core resources and events?

Short answer is yes. The callbacks module defines literals for what are considered core Neutron resources and events. However, the ability to subscribe/notify is not limited to these as you can use your own defined resources and/or events. Just make sure you use string literals, as typos are common, and the registry does not provide any runtime validation. Therefore, make sure you test your code!

What is the relationship between Callbacks and Taskflow?

There is no overlap between Callbacks and Taskflow or mutual exclusion; as matter of fact they can be combined; You could have a callback that goes on and trigger a taskflow. It is a nice way of separating implementation from abstraction, because you can keep the callback in place and change Taskflow with something else.

Is there any ordering guarantee during notifications?

No, the ordering in which callbacks are notified is completely arbitrary by design: callbacks should know nothing about each other, and ordering should not matter; a callback will always be notified and its outcome should always be the same regardless as to in which order is it notified. Priorities can be a future extension, if a use case arises that require enforced ordering.

How is the notifying object expected to interact with the subscribing objects?

The `notify` method implements a one-way communication paradigm: the notifier sends a message without expecting a response back (in other words it fires and forget). However, due to the nature of Python, the payload can be mutated by the subscribing objects, and this can lead to unexpected behavior of your code, if you assume that this is the intentional design. Bear in mind, that passing-by-value using deepcopy was not chosen for efficiency reasons. Having said that, if you intend for the notifier object to expect a response, then the notifier itself would need to act as a subscriber.

Is the registry thread-safe?

Short answer is no: it is not safe to make mutations while callbacks are being called (more details as to why can be found line 937 of `dictobject <https://hg.python.org/releasing/2.7.9/file/753a8f457ddc/Objects/dictobject.c>`). A mutation could happen if a `subscribe?unsubscribe` operation interleaves with the execution of the notify loop. Albeit there is a possibility that things may end up in a bad state, the registry works correctly under the assumption that subscriptions happen at the very beginning of the life of the process and that the unsubscriptions (if any) take place at the very end. In this case, chances that things do go badly may be pretty slim. Making the registry thread-safe will be considered as a future improvement.
What kind of function can be a callback?

Anything you fancy: lambdas, 'closures', class, object or module methods. For instance:

```python
from neutron_lib.callbacks import events
from neutron_lib.callbacks import resources
from neutron_lib.callbacks import registry

def callback1(resource, event, trigger, payload):
    print('module callback')

class MyCallback(object):

    def callback2(self, resource, event, trigger, payload):
        print('object callback')

    @classmethod
    def callback3(cls, resource, event, trigger, payload):
        print('class callback')

c = MyCallback()
registry.subscribe(callback1, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(c.callback2, resources.ROUTER, events.BEFORE_CREATE)
registry.subscribe(MyCallback.callback3, resources.ROUTER, events.BEFORE_CREATE)

def do_notify():
    def nested_subscribe(resource, event, trigger, payload):
        print('nested callback')

        registry.subscribe(nested_subscribe, resources.ROUTER, events.BEFORE_CREATE)

    registry.publish(resources.ROUTER, events.BEFORE_CREATE,
                      do_notify, events.EventPayload(None))

    print('Notifying...')
do_notify()

And the output is going to be:

```
Before you intend to release a new version of neutron-lib consider posting
a `sentinel patch <https://review.openstack.org/#q,I261ec7ea9a5443fd23b806df8c1a109049264fcb,a,z>`_
that will allow to validate that the neutron-lib hash chosen for tagging is
not breaking gate or check jobs affecting a project you care about, first
and foremost Neutron.

As the patch shows, upper-constraints must be bypassed and that may itself
lead to failures due to upstream package changes. The patch also shows (expected)
Grenade failures in that Grenade pulls its own upper-constraints
file during the upgrade phase. In general a newer version of neutron-lib is
validated through the Tempest -full job (and Grenade runs a subset of it), so
Grenade failures can be safely ignored.

In any other case consider (for failures caused by unpinned global requirements)
hard-coding a dummy upper-constraints file that itself uses the specific
neutron-lib hash you want to test. Furthermore, consider using a commit header
that starts with DNM (Do Not Merge) to indicate that the change is just a test,
or -2, if you have the right access permissions.

It is also worth noting that every Stadium project will have a periodic job
running unit tests and pep8 against the master version of neutron-lib.
Checking Grafana’s `periodic <http://grafana.openstack.org/dashboard/db/neutron-lib-failure-rate?panelId=6&fullscreen>`_
dashboard can give you a glimpse into the sanity of the integration between
neutron-lib and the Stadium projects, and can be considered the quick check
before going ahead with a full blown sentinel patch. Periodic failures can be
debugged by viewing the `periodic logs <http://logs.openstack.org/periodic/git.openstack.org/openstack/>`

In addition, both the API reference as well as the project docs should be
validated to ensure there are no dead links. To do so run
```tox -e linkcheck``` and address the errors.

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~~~~~~~ Heading 2
+++++++ Heading 3
~~~~~ Heading 4

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API Validators

==============
For the REST API, attributes may have custom validators defined. Each validator will have a method to perform the validation, and a type definition string, so that the validator can be referenced.

Defining A Validator Method
---------------------------

The validation method will have a positional argument for the data to be validated, and may have additional (optional) keyword arguments that can be used during validation. The method must handle any exceptions and either return None (success) or a i18n string indicating the validation failure message. By convention, the method name is prefixed with ``validate_`` and then includes the data type. For example:

```python
def validate_uuid(data, valid_values=None):
    if not uuidutils.is_uuid_like(data):
        msg = _('%s is not a valid UUID') % data
        LOG.debug(msg)
        return msg
```

There is a validation dictionary that maps the method to a validation type that can be referred to in REST API definitions. An entry in the dictionary would look like the following:

```python
'type:uuid': validate_uuid,
```

Using Validators
--------------

In client code, the validator can be used in a REST API by using the dictionary key for the validator. For example:

```python
NETWORKS: {
    'id': {'allow_post': False, 'allow_put': False,
           'validate': {'type:uuid': None},
           'is_visible': True,
           'primary_key': True},
    'name': {'allow_post': True, 'allow_put': True,
             'validate': {'type:string': NAME_MAX_LEN},
             'default': '', 'is_visible': True}}
```
Here, the networks resource has an 'id' attribute with a UUID validator, as seen by the 'validate' key containing a dictionary with a key of 'type:uuid'.

Any addition arguments for the validator can be specified as values for the dictionary entry (None in this case, NAME_MAX_LEN in the 'name' attribute that uses a string validator). In a IP version attribute, one could have a validator defined as follows:

```python
{"ip_version": {'allow_post': True, 'allow_put': False,
    'convert_to': conversions.convert_to_int,
    'validate': {'type:values': [4, 6]},
    'is_visible': True}}
```

Here, the validate_values() method will take the list of values as the allowable values that can be specified for this attribute.

Test The Validator

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

Do the right thing, and make sure you've created a unit test for any validator that you add to verify that it works as expected, even for simple validators.

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Contributor Guide
=================

In the Contributor Guide, you will find information on the Neutron Library components and how to use them from a development standpoint.

.. toctree::
:maxdepth: 2

  conventions
  review-guidelines
  contributing
  releasing
  internals

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API Extensions
===============

API extensions provide a standardized way of introducing new API functionality. While the `neutron-lib` project itself does not serve an API, the `neutron` project does and leverages the API extension framework from `neutron-lib`.

API extensions consist of the following high-level constructs:

- API definitions that specify the extension's static metadata. This metadata includes basic details about the extension such as its name, description,
alias, etc. as well as its extended resources/sub-resources and required/optional extensions. These definitions live in the ``neutron_lib.api.definitions`` package.

- API reference documenting the APIs/resources added/modified by the extension. This documentation is in `rst` format and is used to generate the openstack API reference <https://developer.openstack.org/api-ref/networking/v2/>_. The API reference lives under the ``api-ref/source/v2`` directory of the ``neutron-lib`` project repository.

- An extension descriptor class that must be defined in an extension directory for ``neutron`` or other sub-project that supports extensions. This concrete class provides the extension's metadata to the API server. These extension classes reside outside of ``neutron-lib``, but leverage the base classes from ``neutron_lib.api.extensions``. For more details see the section below on using neutron-lib's extension classes.

- The API extension plugin implementation itself. This is the code that implements the extension's behavior and should carry out the operations defined by the extension. This code resides under its respective project repository, not in ``neutron-lib``. For more details see the `neutron api extension dev-ref <https://docs.openstack.org/neutron/latest/contributor/internals/api_extensions.html>_`.

Using neutron-lib's base extension classes
------------------------------------------

The ``neutron_lib.api.extensions`` module provides a set of base extension descriptor classes consumers can use to define their extension descriptor(s). For those extensions that have an API definition in ``neutron_lib.api.definitions``, the ``APIExtensionDescriptor`` class can be used. For example::

```python
from neutron_lib.api.definitions import provider_net
from neutron_lib.api import extensions

class Providernet(extensions.APIExtensionDescriptor):
    api_definition = provider_net
    # nothing else needed if default behavior is acceptable
```

For extensions that do not yet have a definition in ``neutron_lib.api.definitions``, they can continue to use the ``ExtensionDescriptor`` as has been done historically.

```
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Open Source Used In Cisco VIM 3.4.36401
```
API Attributes
==============

Neutron's resource attributes are defined in dictionaries in `api/definitions`.

The map containing all installed resources (for core and active extensions) is in `api/attributes.py`.

Attribute map structure
-----------------------

Example attribute definitions for `dns_name`:

```python
'dns_name': {
    'allow_post': True,
    'allow_put': True,
    'default': '',
    'convert_to': convert_to_lowercase,
    'validate': {'type:dns_name': FQDN_MAX_LEN},
    'is_visible': True
},
```

The `validate` item specifies rules for validating <api_validators.html> the attribute.
The `convert_to` item specifies rules for converting attribute values.

Example attribute definitions for `gateway_ip`:

```python
'gateway_ip': {
    'allow_post': True,
    'allow_put': True,
    'default': constants.ATTR_NOT_SPECIFIED,
    'validate': {'type:ip_address_or_none': None},
    'is_visible': True
}
```

Note: a default of `ATTR_NOT_SPECIFIED` indicates that an attribute is not required, but will be generated by the plugin if it is not specified. Particularly, a value of `ATTR_NOT_SPECIFIED` is different from an attribute that has been specified with a value of `None`. For example, if `gateway_ip` is omitted in a request to create a subnet, the plugin will receive `ATTR_NOT_SPECIFIED` and the default gateway IP will be generated. However, if `gateway_ip` is specified as `None`, this means that the subnet does not have a gateway IP.

The following are the defined keys for attribute maps:

```
```

Contributing

As your code is subject to the `review guidelines <./review-guidelines.html>`_, please take the time to familiarize yourself with those guidelines.
Rehoming Existing Code

The checklist below aims to provide guidance for developers rehoming (moving) code into neutron-lib. Rehoming approaches that fall outside the scope herein will need to be considered on a case by case basis.

The rehoming workflow procedure has four main phases:

1. Phase 1: Rehome the code from neutron into neutron-lib.
2. Phase 2: Enhance the code in neutron-lib if necessary.
3. Phase 3: Release neutron-lib with the code so consumers can use it.
4. Phase 4: Consume by removing the rehomed code from its source and changing references to use neutron-lib.

Phase 1: Rehome

- Identify the chunk of code for rehoming. Applicable code includes common classes/functions/modules/etc. that are consumed by networking project(s) outside of neutron. Optimal consumption patterns of the code at hand must also be considered to ensure the rehomed code addresses any technical debt. Finally, leave low-hanging fruit for last and tackle the most commonly used code first. If you have any doubt about the applicability of code for rehoming, reach out to one of the neutron core developers before digging in.

- Find and identify any unit tests for the code being rehomed. These unit tests can often be moved into neutron-lib with minimal effort. After inspecting the applicable unit tests, rewrite any that are non-optimal.

- Search and understand the consumers of the code being rehomed. This must include other networking projects in addition to neutron itself. At this point it may be determined that the code should be refactored before it is consumed. There are a few common strategies for refactoring, and the one chosen will depend on the nature of the code at hand:

  - Refactor/enhance the code as part of the initial neutron-lib patch. If this change will be disruptive to consumers, clearly communicate the change via email list or `meeting topic <https://wiki.openstack.org/wiki/Network/Meetings>`_.
  - Leave the refactoring to the next (Enhance) phase. In this rehome phase, copy the code as-is into a private module according to our `conventions <./conventions.html>`_. This approach is slower, but may be necessary in some cases.

- Understand existing work underway which may impact the rehomed code, for example, in-flight patch sets that update the code being rehomed. In some cases it may make sense to let the in-flight patch merge and solidify a bit before rehoming.
# Prepare the code for neutron-lib. This may require replacing existing imports with those provided by neutron-lib and/or rewriting/rearitcting non-optimal code (see above). The interfaces in the rehomed code are subject to our `conventions <./conventions.html>`.

#. Prepare the unit test code for neutron-lib. As indicated in the `review guidelines <./review-guidelines.html>` we are looking for a high code coverage by tests. This may require adding additional tests if neutron was lacking in coverage.

#. Submit and shepherd your patch through its neutron-lib review. Include a `release note <https://docs.openstack.org/reno/latest/>` that describes the code's old neutron location and new neutron-lib location. Also note that in some cases it makes sense to prototype a change in a consumer project to better understand the impacts of the change, which can be done using the `Depends-On:` approach described in the `review guidelines <./review-guidelines.html>`.

Examples:

- `319769 <https://review.openstack.org/319769/>` brought over a number of common utility functions as-is from neutron into a new package structure within neutron-lib.
- `319386 <https://review.openstack.org/319386/>` rehomes a validator from neutron into neutron-lib.

Phase 2: Enhance
~~~~~~~~~~~~~~~~

If the rehomed code is not applicable for enhancements and wasn't made private in Phase 1, you can skip this step.

Develop and shepherd the enhancements to the private rehomed code applicable at this time. Private APIs made public as part of this phase will also need `release notes <https://docs.openstack.org/reno/latest/>` indicating the new public functionality.

Examples:

- `346554 <https://review.openstack.org/346554/>` enhances the rehomed private callback API in neutron-lib.

Phase 3: Release
~~~~~~~~~~~~~~~~

A new neutron-lib release can be cut at any time. You can also request a release by following the README instructions in the `openstack/releases <https://github.com/openstack/releases>` project.
Once a release is cut, an openstack infra proposal bot will submit patches to the master branch of all projects that consume neutron-lib to set the new release as the minimum requirement. Someone from the neutron release team can bump `global requirements` (g-r); for example `review 393600 <https://review.openstack.org/393600/>`

When the bot-proposed requirement patches have merged, your rehomed code can be consumed.

**Phase 4: Consume**

~~~~~~~~~~~~~~

It's critical that before you submit your patch to remove the rehomed code from its source that you perform a diff between it and the rehomed version in neutron-lib to ensure nothing has changed in the source. If something has changed in the source, you need to push and shepherd a patch to neutron-lib with the difference(s) before proceeding with this consumption phase.

The following guidelines are intended to provide a smooth transition to the rehomed code in neutron-lib and minimize impacts to subprojects consuming the rehomed code from its source.

- If the change to consume the code from neutron-lib is widespread and/or "important", introduce your intentions for the change via the Neutron team `meeting slot <https://wiki.openstack.org/wiki/Network/Meetings>`_.
  Subsequently follow-up with an email to openstack-dev list using a subject with ```[neutron] neutron-lib impact``` providing additional details as necessary.
  Ideally we can identify the main impacted subprojects by `grepping the OpenStack code <http://codesearch.openstack.org/>`
- Prepare a neutron core patch to remove and update the rehomed code from its source.
  This can be done without a `debtcollector <https://docs.openstack.org/debtcollector/latest/>`
  notice by following the steps here. In the patch's commit message include the ```NeutronLibImpact``` so that we can easily `query <https://review.openstack.org/#/q/status:open+message:%22NeutronLibImpact%22>` for such changes. Mark the patch as a work in progress with a -1 workflow vote.
- If the change is significant enough, it may warrant a "reference implementation" in an impacted subproject to ensure the impacts are fully understood. Testing this change can be done using the ```Depends-On:``` approach described in the `review guidelines <./review-guidelines.html>`.
- If you are a core reviewer and about to approve a NeutronLibImpact change, please consider checking the state of all Stadium subprojects by looking at the `grafana periodic dashboard <http://grafana.openstack.org/dashboard/db/neutron-lib-failure-rate?panelId=4&fullscreen>`.
  This dashboard shows the status of subprojects' unit tests against neutron and neutron-lib master branches, and even though it is not exactly validating unit tests against a released version of neutron-lib it may be enough of an alarm bell to indicate that something might be wrong because of a patch that recently landed in neutron (assuming that the subprojects still has direct neutron imports). The check happens daily therefore consider waiting to approve if you are either aware of another impactful change recently merged that has not been yet processed or you see failure rates spiking.
Examples:

- `348472 <https://review.openstack.org/348472/>`_ removes a validator in neutron that was rehomed to neutron-lib.

-----------------------
Neutron-Lib Conventions
-----------------------

Summary
-------

* Standard modules - current cycle + 2 deprecation policy
* Legacy modules - current cycle + 1 deprecation policy
* Private modules - no deprecation warnings of any kind

Interface Contract
------------------

The neutron-lib repo exists to provide code with a long-term stable interface for subprojects. If we do need to deprecate something, a debtcollector warning will be added, the neutron-lib core team will make every effort to update any neutron stadium project for you, and you will get at least the current release plus two cycles before it disappears.

In keeping with how hard it is to remove things, the change velocity of this library will be slower than neutron. There are two notable cases where code should go into standard neutron instead of this lib (or your repo):

* It is something common, but changes a lot. An example is something like the neutron Port object. Everyone uses it, but it changes frequently. You don't want to wait for a library release to tweak some neutron feature, and we are not going to force releases quickly because you tried to put it here. Those items will need to be addressed in some other manner (in the case of the Port object, it'll be via an auto-magic container object that mimics it.)

* It is something common, but you need it now. Put it in the repo that needs it, get your stuff working. Then consider making it available in the lib, and eventually remove it from your repo when the lib is publishing it. An example would be a new neutron constant. The process would be, put it in neutron along with your change, submit it to the lib, when that constant is eventually available, remove it from neutron and use the lib version.

Private Interfaces
------------------

Private interfaces are *PRIVATE*. They will disappear, be renamed, and absolutely no regard will be given to anyone that is using them. They are
for internal library use only.

DO NOT USE THEM. THEY WILL CHANGE.

Private interfaces in this library will always have a leading underscore, on the module or function name.

Legacy Modules
-------------

This library has a special namespace called neutron_lib.legacy.

Anything in this directory will likely get a new interface in the top-level library sometime in the near future, and then a debtcollector deprecation notice. Expect to get current cycle plus one release of maintenance at that point, and then they will be removed.

Why this intermediary step? Because neutron has some serious dependency issues with its subprojects that need breaking, we do not want to rush some of the refactors to our interfaces that need to happen, we have limited resources, but we still need to make addressing those dependency issues a high priority.

The legacy module is for those existing modules in neutron that are in wide use by subprojects, but which are not super interfaces. The legacy submodule is for routines that will still be maintained with a long-term backwards compatibility interface contract, but which are not considered "library worthy" by the neutron core team.

This can easily be abused as a kitchen sink to just move stuff and make fast progress. Please do not do this, and do not expect this kind of thing to be favorably reviewed. Good candidates for this area are things that we want to refactor, but are lower priority, AND they have been around for a long time with no changes (i.e. an existing history of stability).

1.393 pciutils 3.5.1 3.el7

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1.394 perl-termreadkey 2.30 20.el7
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1.395 python-cherrypy 3.2.2 4.el7
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1.397 python xstatic termjs 0.0.7.0 1.el7ost

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1.398 setools-libs 3.3.8 4.el7

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1.401 python-xstatic-angular-schema-form 0.8.13.0 0.1.pre_review.el7ost

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1.402 python-setuptools 40.8.0

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1.403 python-websocket-client 0.32.0 116.el7

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1.404 erlang-sd-notify 1.0 2.el7ost

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1.405 gdbm 1.8.3-14.debian

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1.408 oj 3.6.6

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1.410 dns-python 1.15.0 5.2.el7ost
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1.412 python-chardet 2.2.1 1.el7_1

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```html
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<title>Terms of use [Universal Encoding Detector]</title>
<link rel="stylesheet" href="css/chardet.css" type="text/css">
<link rev="made" href="mailto:mark@diveintomark.org">
<meta name="generator" content="DocBook XSL Stylesheets V1.65.1">
<meta name="keywords" content="character, set, encoding, detection, Python, XML, feed">
<link rel="start" href="index.html" title="Documentation">
<link rel="up" href="index.html" title="Documentation">
<link rel="prev" href="history.html" title="Revision history">
</head>
<body id="chardet-feedparser-org" class="docs">
<div class="z" id="intro"><div class="sectionInner"><div class="sectionInner2">
<div class="s" id="pageHeader">
<h1><a href="/">Universal Encoding Detector</a></h1>
<p>Character encoding auto-detection in Python. As smart as your browser. Open source.</p>
</div>
<div class="s" id="quickSummary"><ul>
<li class="li1"><a href="http://chardet.feedparser.org/download/">Download</a></li>
<li class="li2"><a href="index.html">Documentation</a></li>
<li class="li3"><a href="faq.html" title="Frequently Asked Questions">FAQ</a></li>
</ul>
</div>
</div></div></div>
```
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IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbf0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
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This cmpxchg code was obtained from the atomic_ops project:

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I (Mathieu Desnoyers) wrote the remainder of the code.

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<tbody>
<tr>
<td>*.1</td>
<td>Unix-style man pages for programs (same info as usage.doc).</td>
</tr>
<tr>
<td>wizard.doc</td>
<td>Advanced usage instructions for JPEG wizards only.</td>
</tr>
<tr>
<td>change.log</td>
<td>Version-to-version change highlights.</td>
</tr>
</tbody>
</table>

Programmer and internal documentation:

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>libjpeg.doc</td>
<td>How to use the JPEG library in your own programs.</td>
</tr>
<tr>
<td>example.c</td>
<td>Sample code for calling the JPEG library.</td>
</tr>
<tr>
<td>structure.doc</td>
<td>Overview of the JPEG library's internal structure.</td>
</tr>
<tr>
<td>filelist.doc</td>
<td>Road map of IJG files.</td>
</tr>
<tr>
<td>coderules.doc</td>
<td>Coding style rules --- please read if you contribute code.</td>
</tr>
</tbody>
</table>

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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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

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by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.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
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
==========

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
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/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use.
it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.
In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.428 libedit 3.0 12.20121213cvs.el7
1.428.1 Available under license :

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1.429 python pymysql 0.7.11 1.el7ost
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THE SOFTWARE.

Command Class Wrappers

When we want to deprecate a command, policy says we need to alert the user.
We do this with a message logged at WARNING level before any command output
is emitted.

OpenStackClient command classes are derived from the `cliff` classes.
Cliff uses `setuptools` entry points for dispatching the parsed command
to the respective handler classes. This lends itself to modifying the
command execution at run-time.

The obvious approach to adding the deprecation message would be to just add
the message to the command class `take_action()` method directly. But then
the various deprecations are scattered throughout the code base. If we
instead wrap the deprecated command class with a new class we can put all of
the wrappers into a separate, dedicated module. This also lets us leave the
original class unmodified and puts all of the deprecation bits in one place.
This is an example of a minimal wrapper around a command class that logs a deprecation message as a warning to the user then calls the original class.

* Subclass the deprecated command.

* Set class attribute ```deprecated``` to ```True``` to signal cliff to not emit help text for this command.

* Log the deprecation message at WARNING level and refer to the replacement for the deprecated command in the log warning message.

* Change the entry point class in ```setup.cfg``` to point to the new class.

Example Deprecation Class
-------------------------

```python
.. code-block:: python

class ListFooOld(ListFoo):
    
    """List resources""

    # This notifies cliff to not display the help for this command
    deprecated = True

    log = logging.getLogger('deprecated')

    def take_action(self, parsed_args):
        self.log.warning(
            "%s is deprecated, use 'foobar list'",
            getattr(self, 'cmd_name', 'this command'),
        )
        return super(ListFooOld, self).take_action(parsed_args)

.. _hig:
```

Human Interface Guide
=====================

*Note: This page covers the OpenStackClient CLI only but looks familiar because it was derived from the Horizon HIG.*

Overview
-------

What is a HIG?
The Human Interface Guidelines document was created for OpenStack developers in order to direct the creation of new OpenStackClient command interfaces.
Personas
---------

Personas are archetypal users of the system. Keep these types of users in mind when designing the interface.

Alice the admin
-----------------

Alice is an administrator who is responsible for maintaining the OpenStack cloud installation. She has many years of experience with Linux systems administration.

Darren the deployer
---------------------

Darren is responsible for doing the initial OpenStack deployment on the host machines.

Emile the end-user
-------------------

Emile uses the cloud to do software development inside of the virtual machines. She uses the command-line tools because she finds it quicker than using the dashboard.

Principles
---------

The principles established in this section define the high-level priorities to be used when designing and evaluating interactions for the OpenStack command line interface. Principles are broad in scope and can be considered the philosophical foundation for the OpenStack experience; while they may not describe the tactical implementation of design, they should be used when deciding between multiple courses of design.

A significant theme for designing for the OpenStack experience concerns focusing on common uses of the system rather than adding complexity to support functionality that is rarely used.

Consistency
---------

Consistency between OpenStack experiences will ensure that the command line interface feels like a single experience instead of a jumble of disparate products. Fractured experiences only serve to undermine user expectations about how they should interact with the system, creating an unreliable user experience. To avoid this, each interaction and visual representation within
the system must be used uniformly and predictably. The architecture and elements
detailed in this document will provide a strong foundation for establishing a
consistent experience.

Example Review Criteria
~~~~~~~~~~~~~~~~~~~~~~~
* Do the command actions adhere to a consistent application of actions?
* Has a new type of command subject or output been introduced?
* Does the design use command elements (options and arguments) as defined?
  (See Core Elements.)
* Can any newly proposed command elements (actions or subjects) be accomplished
  with existing elements?
* Does the design adhere to the structural model of the core experience?
  (See Core Architecture.)
* Are any data objects displayed or manipulated in a way contradictory to how
  they are handled elsewhere in the core experience?

Simplicity
---------

To best support new users and create straight forward interactions, designs
should be as simple as possible. When crafting new commands, designs should
minimize the amount of noise present in output: large amounts of
nonessential data, overabundance of possible actions and so on. Designs should
focus on the intent of the command, requiring only the necessary components
and either removing superfluous elements or making
them accessible through optional arguments. An example of this principle occurs
in OpenStack's use of tables: only the most often used columns are shown by
default. Further data may be accessed through the output control options,
allowing users to specify the types of data that they find useful in their
day-to-day work.

Example Review Criteria
~~~~~~~~~~~~~~~~~~~~~~~
* Can options be used to combine otherwise similar commands?
* How many of the displayed elements are relevant to the majority of users?
* If multiple actions are required for the user to complete a task, is each
  step required or can the process be more efficient?

User-Centered Design
---------------------

Commands should be design based on how a user will interact with the system
and not how the system's backend is organized. While database structures and
APIs may define what is possible, they often do not define good user experience; consider user goals and the way in which users will want to interact with their data, then design for these work flows and mold the interface to the user, not the user to the interface.

Commands should be discoverable via the interface itself.

To determine a list of available commands, use the :code:`-h` or :code:`--help` options:

.. code-block:: bash

    $ openstack --help

For help with an individual command, use the :code:`help` command:

.. code-block:: bash

    $ openstack help server create

Example Review Criteria

~~~~~~~~~~~~~~~~~~~~~~~

* How quickly can a user figure out how to accomplish a given task?
* Has content been grouped and ordered according to usage relationships?
* Do work flows support user goals or add complexity?

Transparency

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

Make sure users understand the current state of their infrastructure and interactions. For example, users should be able to access information about the state of each machine/virtual machine easily, without having to actively seek out this information. Whenever the user initiates an action, make sure a confirmation is displayed[1] to show that an input has been received. Upon completion of a process, make sure the user is informed. Ensure that the user never questions the state of their environment.

[1] This goes against the common UNIX philosophy of only reporting error conditions and output that is specifically requested.

Example Review Criteria

~~~~~~~~~~~~~~~~~~~~~~~

* Does the user receive feedback when initiating a process?
* When a process is completed?
* Does the user have quick access to the state of their infrastructure?
Architecture
============

Command Structure
-----------------

OpenStackClient has a consistent and predictable format for all of its commands.

* The top level command name is :code:`openstack`
* Sub-commands take the form:

  .. code-block:: bash

    openstack [ <global-options> ] <object-1> <action> [ <object-2> ] [ <command-arguments> ]

Subcommands shall have three distinct parts to its commands (in order that they appear):

* global options
* command object(s) and action
* command options and arguments

Output formats:

* user-friendly tables with headers, etc
* machine-parsable delimited

Global Options
~~~~~~~~~~~~~~

Global options are global in the sense that they apply to every command invocation regardless of action to be performed. They include authentication credentials and API version selection. Most global options have a corresponding environment variable that may also be used to set the value. If both are present, the command-line option takes priority. The environment variable names are derived from the option name by dropping the leading dashes ('--'), converting each embedded dash ('-') to an underscore ('_'), and converting to upper case.

* Global options shall always have a long option name, certain common options may also have short names. Short names should be reserved for global options to limit the potential for duplication and multiple meanings between commands given the limited set of available short names.
* All long options names shall begin with two dashes ('--') and use a single dash ('-') internally between words (:code:`--like-this`). Underscores ('_') shall not be used in option names.
* Authentication options conform to the common CLI authentication guidelines in :ref:`authentication`.
For example, `--os-username` can be set from the environment via `OS_USERNAME`.

`--help`  
+++++++  

The standard `--help` global option displays the documentation for invoking the program and a list of the available commands on standard output. All other options and commands are ignored when this is present. The traditional short form help option (`-h`) is also available.

`--version`  
++++++++++  

The standard `--version` option displays the name and version on standard output. All other options and commands are ignored when this is present.

Command Object(s) and Action
~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Commands consist of an object described by one or more words followed by an action. Commands that require two objects have the primary object ahead of the action and the secondary object after the action. Any positional arguments identifying the objects shall appear in the same order as the objects. In badly formed English it is expressed as "(Take) object1 (and perform) action (using) object2 (to it)."

```
<object-1> <action> [<object-2>]
```

Examples:

* `group add user <group> <user>`
* `volume type list`  # Note that `volume type` is a two-word single object

The `help` command is unique as it appears in front of a normal command and displays the help text for that command rather than execute it.

Object names are always specified in command in their singular form. This is contrary to natural language use.

Command Arguments and Options
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Each command may have its own set of options distinct from the global options. They follow the same style as the global options and always appear between the command and any positional arguments the command requires.

Command options shall only have long names. The small range of available short names makes it hard for a single short option name to have a consistent
meaning across multiple commands.

Option Forms
++++++++++++++

* **boolean**: boolean options shall use a form of `--<true>|--<false>` (preferred) or `--<option>|--no-<option>`. For example, the `enabled` state of a project is set with `--enable|--disable`.

Command Output
------------

The default command output is pretty-printed using the Python `prettytable` module.

Machine-parsable output format may be specified with the `--format` option to `list` and `show` commands. `list` commands have an option (`--format csv`) for CSV output and `show` commands have an option (`--format shell`) for the shell variable assignment syntax of `var="value"`. In both cases, all data fields are quoted with `"`.

Help Commands
-------------

The help system is considered separately due to its special status among the commands. Rather than performing tasks against a system, it provides information about the commands available to perform those tasks. The format of the `help` command therefore varies from the form for other commands in that the `help` command appears in front of the first object in the command.

The options `--help` and `-h` display the global options and a list of the supported commands. Note that the commands shown depend on the API versions that are in effect; i.e. if `--os-identity-api-version=3` is present Identity API v3 commands are shown.

Examples
--------

The following examples depict common command and output formats expected to be produces by the OpenStack client.

Authentication
-------------

Using global options:

```bash
.. code-block:: bash
```
$ openstack --os-tenant-name ExampleCo --os-username demo --os-password secret --os-auth-url http://localhost:5000/v2.0 server show appweb01

+------------------------+-----------------------------------------------------+
|        Property        |                Value                                |
+------------------------+-----------------------------------------------------+
| OS-DCF:diskConfig      | MANUAL                                              |
| OS-EXT-STS:power_state | 1                                                   |
| flavor                 | m1.small                                            |
| id                     | dcbe2185-ba17-4f81-95a9-c3fae9b2b042                 |
| image                  | Ubuntu 12.04 (754c231e-ade2-458c-9f91-c8df107ff7ef) |
| keyname                | demo-key                                            |
| name                   | appweb01                                            |
| private_address        | 10.4.128.13                                         |
| status                 | ACTIVE                                              |
| user                   | demo                                                |
+------------------------+-----------------------------------------------------+

Using environment variables:

.. code-block:: bash

$ export OS_TENANT_NAME=ExampleCo
$ export OS_USERNAME=demo
$ export OS_PASSWORD=secret
$ export OS_AUTH_URL=http://localhost:5000/v2.0
$ openstack server show appweb01

+------------------------+-----------------------------------------------------+
|        Property        |                Value                                |
+------------------------+-----------------------------------------------------+
| OS-DCF:diskConfig      | MANUAL                                              |
| OS-EXT-STS:power_state | 1                                                   |
| flavor                 | m1.small                                            |
| id                     | dcbe2185-ba17-4f81-95a9-c3fae9b2b042                 |
| image                  | Ubuntu 12.04 (754c231e-ade2-458c-9f91-c8df107ff7ef) |
| keyname                | demo-key                                            |
| name                   | appweb01                                            |
| private_address        | 10.4.128.13                                         |
| status                 | ACTIVE                                              |
| user                   | demo                                                |
+------------------------+-----------------------------------------------------+

Machine Output Format

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

Using the csv output format with a list command:

.. code-block:: bash
$ openstack server list --format csv
"ID","Name","Status","Private_Address"
"ead97d84-6988-47fe-9637-3564fc36bc4b","appweb01","ACTIVE","10.4.128.13"

Using the show command options of shell output format and adding a prefix of `my_` to avoid collisions with existing environment variables:

.. code-block:: bash

  $ openstack server show --format shell --prefix my_appweb01
  my_OS-DCF:diskConfig="MANUAL"
  my_OS-EXT-STS:power_state="1"
  my_flavor="m1.small"
  my_id="dcbbc2185-ba17-4f81-95a9-c3fae9b2b042"
  my_image="Ubuntu 12.04 (754c231e-ade2-458c-9f91-c8df107ff7ef)"
  my_keyname="demo-key"
  my_name="appweb01"
  my_private_address="10.4.128.13"
  my_status="ACTIVE"
  my_user="demo"

==============
network topology
==============

A **network topology** shows a topological graph about devices which connect to the specific network. Also, it will return availability information for each individual device within the network as well. One other thing to note is that it is the intention for OSC to collect data from existing REST APIs

Network v2

network topology list

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

List network topologies

.. program:: network topology list

.. code:: bash

  openstack network topology list
        [--project <project>]

.. option:: --project <project>

  List network topologies for given project
Show network topology details

.. program:: network topology show
.. code:: bash

    openstack network topology show
    <network>

.. _network_topology_show-network:
.. describe:: <network>

    Show network topology for a specific network (name or ID)

Contributor Documentation

.. toctree::
   :maxdepth: 1

   developing
   command-beta
   command-options
   command-wrappers
   command-errors
   command-logs
   specs.commands
   plugins
   humaninterfaceguide
   api/modules

This is a specification for the `example` command object. It is not intended to be a complete template for new commands since other actions, options and/or arguments may be used. You can include general specification information before the commands below. This information could include links to related material or descriptions of similar commands.

[example API name] [example API version]

example create

-----------
Create new example

.. program:: example create
.. code:: bash

    openstack example create
    <name>

.. describe:: <name>

    New example name

eexample delete

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

Delete example(s)

.. program:: example delete
.. code:: bash

    openstack example delete
    <example> [<example> ...]

.. describe:: <example>

    Example(s) to delete (name or ID)

eexample list

-----------

List examples

eexample set

----------

Set example properties

eexample set

    [--name <new-name>]
.. description:: <example>
   Example to modify (name or ID)

   example show

   Display example details

   .. program:: example show
   .. code:: bash

       openstack example show

   .. description:: <example>
   Example to display (name or ID)

Developing with OpenStackClient

Meetings
========
The OpenStackClient team meets regularly on every Thursday. For details please refer to the `OpenStack IRC meetings` page.

.. `OpenStack IRC meetings`: http://eavesdrop.openstack.org/#OpenStackClient_Team_Meeting

Testing
-------

Tox prerequisites and installation

Install the prerequisites for Tox:

* On Ubuntu or Debian:
You may need to use pip install for some packages.

* On RHEL or CentOS including Fedora:

```bash
$ yum install gcc python-devel libxml2-devel libxslt-devel
```

* On openSUSE or SUSE Linux Enterprise:

```bash
$ zypper install gcc python-devel libxml2-devel libxslt-devel
```

Install python-tox:

```bash
$ pip install tox
```

To run the full suite of tests maintained within OpenStackClient.

```bash
$ tox
```

**NOTE:**

The first time you run ```tox```, it will take additional time to build virtualenvs. You can later use the ```-r``` option with ```tox``` to rebuild your virtualenv in a similar manner.

To run tests for one or more specific test environments (for example, the most common configuration of Python 2.7 and PEP-8), list the environments with the ```-e``` option, separated by spaces:

```bash
$ tox -e py27,pep8
```

See ```tox.ini``` for the full list of available test environments.
Running functional tests
================================

OpenStackClient also maintains a set of functional tests that are optimally designed to be run against OpenStack's gate. Optionally, a developer may choose to run these tests against any OpenStack deployment, however depending on the services available, results vary.

To run the entire suite of functional tests:

.. code-block:: bash

    $ tox -e functional

To run a specific functional test:

.. code-block:: bash

    $ tox -e functional -- --regex functional.tests.compute.v2.test_server

Running with PDB
===============

Using PDB breakpoints with `tox` and `testr` normally does not work since the tests fail with a `BdbQuit` exception rather than stopping at the breakpoint.

To run with PDB breakpoints during testing, use the `debug` `tox` environment rather than `py27`. For example, passing a test name since you will normally only want to run the test that hits your breakpoint:

.. code-block:: bash

    $ tox -e debug openstackclient.tests.identity.v3.test_group

For reference, the `debug` `tox` environment implements the instructions

.. _debug: https://wiki.openstack.org/wiki/Testr#Debugging_.28pdb.29_Tests

Building the Documentation
--------------------------

The documentation is generated with Sphinx using the `tox` command. To create HTML docs, run the commands:

.. code-block:: bash
$ tox -e docs

The resultant HTML will be in the `doc/build/html` directory.

Release Notes
-------------

The release notes for a patch should be included in the patch. See the
`Project Team Guide` for more information on using reno in OpenStack.

.. _`Project Team Guide`: http://docs.openstack.org/project-team-guide/release-management.html#managing-release-notes

If any of the following applies to the patch, a release note is required:

* The deployer needs to take an action when upgrading
* The plugin interface changes
* A new feature is implemented
* A command or option is removed
* Current behavior is changed
* A security bug is fixed

Reno is used to generate release notes. Use the commands:

.. code-block:: bash

    $ tox -e venv -- reno new <bug-,bp-,whatever>

Then edit the sample file that was created and push it with your change.

To run the commands and see results:

.. code-block:: bash

    $ git commit  # Commit the change because reno scans git log.

    $ tox -e releasenotes

At last, look at the generated release notes files in `releasenotes/build/html` in your browser.

Testing new code
----------------

If a developer wants to test new code (feature, command or option) that
they have written, OpenStackClient may be installed from source by running
the following commands in the base directory of the project:

.. code-block:: bash
$ python setup.py develop

or

.. code-block:: bash

$ pip install -e .

Standardize Import Format
==========================

.. _`Import Order Guide`: https://docs.openstack.org/hacking/latest/user/hacking.html#imports

The import order shows below:

* {{stdlib imports in human alphabetical order}}
  *
  *
  * {{third-party lib imports in human alphabetical order}}
  *
  *
  * {{project imports in human alphabetical order}}
  *
  *
  * {{begin your code}}

Example
~~~~~~

.. code-block:: python

    import copy
    import fixtures
    import mock
    import os

    from osc_lib.api import auth
    from osc_lib import utils
    import six
    from openstackclient import shell
    from openstackclient.tests import utils

==============
Command Errors
==============

Handling errors in OpenStackClient commands is fairly straightforward. An exception is thrown and handled by the application-level caller.
Note: There are many cases that need to be filled out here. The initial version of this document considers the general command error handling as well as the specific case of commands that make multiple REST API calls and how to handle when one or more of those calls fails.

General Command Errors
======================

The general pattern for handling OpenStackClient command-level errors is to raise a CommandError exception with an appropriate message. This should include conditions arising from arguments that are not valid/allowed (that are not otherwise enforced by `argparse`) as well as errors arising from external conditions.

External Errors
---------------

External errors are a result of things outside OpenStackClient not being as expected.

Example
~~~~~~~

This example is taken from `keypair create` where the `--public-key` option specifies a file containing the public key to upload. If the file is not found, the IOError exception is trapped and a more specific CommandError exception is raised that includes the name of the file that was attempted to be opened.

```python
class CreateKeypair(command.ShowOne):
    """Create new public key"

    # ...

    def take_action(self, parsed_args):
        compute_client = self.app.client_manager.compute

        public_key = parsed_args.public_key
        if public_key:
            try:
                with io.open(
                    os.path.expanduser(parsed_args.public_key),
                    "rb"
                ) as p:
                    public_key = p.read()
            except IOError as e:
                msg = _("Key file %s not found: %s")
                raise exceptions.CommandError(
```
msg % (parsed_args.public_key, e),
)

keypair = compute_client.keypairs.create(
    parsed_args.name,
    public_key=public_key,
)

## ...

REST API Errors
===============

Most commands make a single REST API call via the supporting client library or SDK. Errors based on HTML return codes are usually handled well by default, but in some cases more specific or user-friendly messages need to be logged. Trapping the exception and raising a CommandError exception with a useful message is the correct approach.

Multiple REST API Calls
-----------------------

Some CLI commands make multiple calls to library APIs and thus REST APIs. Most of the time these are ``create`` or ``set`` commands that expect to add or change a resource on the server. When one of these calls fails, the behaviour of the remainder of the command handler is defined as such:

* Whenever possible, all API calls will be made. This may not be possible for specific commands where the subsequent calls are dependent on the results of an earlier call.

* Any failure of an API call will be logged for the user

* A failure of any API call results in a non-zero exit code

* In the cases of failures in a ``create`` command a follow-up mode needs to be present that allows the user to attempt to complete the call, or cleanly remove the partially-created resource and re-try.

The desired behaviour is for commands to appear to the user as idempotent whenever possible, i.e. a partial failure in a ``set`` command can be safely retried without harm. ``create`` commands are a harder problem and may need to be handled by having the proper options in a set command available to allow recovery in the case where the primary resource has been created but the subsequent calls did not complete.

Example 1
~~~~~~~~~
This example is taken from the `volume snapshot set` command where `--property` arguments are set using the volume manager's `set_metadata()` method, `--state` arguments are set using the `reset_state()` method, and the remaining arguments are set using the `update()` method.

```python
.. code-block:: python

class SetSnapshot(command.Command):
    """Set snapshot properties""

    # ...

def take_action(self, parsed_args):
    volume_client = self.app.client_manager.volume
    snapshot = utils.find_resource(
        volume_client.volume_snapshots,
        parsed_args.snapshot,
    )

    kwargs = {}
    if parsed_args.name:
        kwargs['name'] = parsed_args.name
    if parsed_args.description:
        kwargs['description'] = parsed_args.description

    result = 0
    if parsed_args.property:
        try:
            volume_client.volume_snapshots.set_metadata(
                snapshot.id,
                parsed_args.property,
            )
        except SomeException:  # Need to define the exceptions to catch here
            LOG.error(_("Property set failed"))
            result += 1

    if parsed_args.state:
        try:
            volume_client.volume_snapshots.reset_state(
                snapshot.id,
                parsed_args.state,
            )
        except SomeException:  # Need to define the exceptions to catch here
            LOG.error(_("State set failed"))
            result += 1

    try:
```
volume_client.volume_snapshots.update(
    snapshot.id,
    **kwargs
)
except SomeException:  # Need to define the exceptions to catch here
    LOG.error(_("Update failed"))
result += 1

# NOTE(dtroyer): We need to signal the error, and a non-zero return code,
#                without aborting prematurely
if result > 0:
    raise SomeNonFatalException

Example 2
~~~~~~~

This example is taken from the `network delete` command which takes multiple
networks to delete. All networks will be deleted in a loop, which makes
multiple `delete_network()` calls.

```python
class DeleteNetwork(common.NetworkAndComputeCommand):
    
    def update_parser_common(self, parser):
        parser.add_argument(
            'network',
            metavar="<network>",
            nargs="+",
            help=_("Network(s) to delete (name or ID)")
        )
        return parser

def take_action(self, client, parsed_args):
    ret = 0

    for network in parsed_args.network:
        try:
            obj = client.find_network(network, ignore_missing=False)
            client.delete_network(obj)
        except Exception:
            LOG.error(_("Failed to delete network with name 
            "or ID %s."), network)
            ret += 1

    if ret > 0:
        total = len(parsed_args.network)
```
msg = (_("Failed to delete %(ret)s of %(total)s networks."))
% {'ret': ret, "total": total}
raise exceptions.CommandError(msg)

===============
Command Specs
===============

Specifications for new commands, objects and actions are listed below. These specifications have not been implemented. See :ref:`command-list` for implemented commands and :ref:`command-structure` for implemented objects and actions.

It is optional to propose a specifications patch for new commands, objects and actions here before submitting the implementation. Once your specifications patch merges then you may proceed with the implementation. Your implementation patches should move applicable portions of the specifications patch to the official :ref:`command-list` and :ref:`command-structure` documentation.

Objects Specs
------------

Add specifications for new objects based on the `example` object.

Actions Specs
------------

Add specifications for new actions based on the `example` action.

.. toctree::
   :maxdepth: 1

   network-topology

Commands Specs
--------------

Add specifications for new commands based on the commands for the `example` object. The `example` commands are not intended to be a complete template for new commands since other actions, options and/or arguments may be used.

.. toctree::
   :glob:
   :maxdepth: 2

   command-objects/*
Plugins

The OpenStackClient plugin system is designed so that the plugin need only be properly installed for OSC to find and use it. It utilizes the `setuptools` entry points mechanism to advertise to OSC the plugin module and supported commands.

Adoption

OpenStackClient promises to provide first class support for the following OpenStack services: Compute, Identity, Image, Object Storage, Block Storage and Network (core objects). These services are considered essential to any OpenStack deployment.

Other OpenStack services, such as Orchestration or Telemetry may create an OpenStackClient plugin. The source code will not be hosted by OpenStackClient.

The following is a list of projects that are an OpenStackClient plugin.

- aodhclient
- gnocchiclient
- python-barbicanclient
- python-congressclient
- python-designateclient
- python-heatclient
- python-ironicclient
- python-ironic-inspector-client
- python-karborclient
- python-mistralclient
- python-muranoclient
- python-neutronclient
- python-octaviaclient
- python-rsdclient
- python-saharaclient
- python-searchlightclient
- python-senlinclient
- python-tripleoclient
- python-troveclient
- python-watcherclient
- python-zaqarclient
- python-zunclient
Note that some clients are not listed in global-requirements.

Project contains advanced network services.

The following is a list of projects that are not an OpenStackClient plugin.

- python-magnumclient
- python-ceilometerclient
- python-solumclient

Implementation
===============

Client module
-------------

Plugins are discovered by enumerating the entry points found under :py:mod:`openstack.cli.extension` and initializing the specified client module.

.. code-block:: ini

    [entry_points]
    openstack.cli.extension =
      oscplugin = oscplugin.client

The client module must define the following top-level variables:

* ``API_NAME`` - A string containing the plugin API name; this is the name of the entry point declaring the plugin client module (`oscplugin = ...` in the example above) and the group name for the plugin commands (`openstack.oscplugin.v1 =` in the example below).

OSC reserves the following API names: ``compute``, ``identity``, ``image``, ``network``, ``object_store`` and ``volume``.

* ``API_VERSION_OPTION`` (optional) - If set, the name of the API version attribute; this must be a valid Python identifier and match the destination set in ``build_option_parser()``.

* ``API_VERSIONS`` - A dict mapping a version string to the client class

The client module must implement the following interface functions:

* ``build_option_parser(parser)`` - Hook to add global options to the parser
* ``make_client(instance)`` - Hook to create the client object

OSC enumerates the plugin commands from the entry points in the usual manner defined for the API version:

.. code-block:: ini
openstack.oscplugin.v1 =
    plugin_list = oscplugin.v1.plugin:ListPlugin
    plugin_show = oscplugin.v1.plugin:ShowPlugin

Note that OSC defines the group name as :py:mod:`openstack.<api-name>.v<version>`
so the version should not contain the leading 'v' character.

.. code-block:: python

    from osc_lib import utils

    DEFAULT_API_VERSION = '1'

    # Required by the OSC plugin interface
    API_NAME = 'oscplugin'
    API_VERSION_OPTION = 'os_oscplugin_api_version'
    API_VERSIONS = {
        '1': 'oscplugin.v1.client.Client',
    }

    # Required by the OSC plugin interface
    def make_client(instance):
        """Returns a client to the ClientManager

        Called to instantiate the requested client version. instance has
        any available auth info that may be required to prepare the client.

        :param ClientManager instance: The ClientManager that owns the new client
        """
        plugin_client = utils.get_client_class(
            API_NAME,
            instance._api_version[API_NAME],
            API_VERSIONS)

        client = plugin_client()
        return client

    # Required by the OSC plugin interface
    def build_option_parser(parser):
        """Hook to add global options

        Called from openstackclient.shell.OpenStackShell.__init__()
        after the builtin parser has been initialized. This is
        where a plugin can add global options such as an API version setting.

        :param argparse.ArgumentParser parser: The parser object that has been
initialized by OpenStackShell.

```
parser.add_argument(
    '--os-oscplugin-api-version',
    metavar='<oscplugin-api-version>',
    help='OSC Plugin API version, default=' +
         DEFAULT_API_VERSION +
         ' (Env: OS_OSCPLUGIN_API_VERSION)')
return parser
```

Client usage of OSC interfaces

OSC provides the following interfaces that may be used to implement the plugin commands:

```
.. code-block:: python

    # osc-lib interfaces available to plugins:
from osc_lib.cli import parseractions
from osc_lib.command import command
from osc_lib import exceptions
from osc_lib import logs
from osc_lib import utils

class DeleteMypluginobject(command.Command):
    """Delete mypluginobject""

    ...

def take_action(self, parsed_args):
    # Client manager interfaces are available to plugins.
    # This includes the OSC clients created.
    client_manager = self.app.client_manager

    ...

    return
```

OSC provides the following interfaces that may be used to implement unit tests for the plugin commands:

```
.. code-block:: python

    # OSC unit test interfaces available to plugins:
from openstackclient.tests import fakes
from openstackclient.tests import utils
```
Requirements
------------

OSC should be included in the plugin’s `test-requirements.txt` if the plugin can be installed as a library with the CLI being an optional feature (available when OSC is also installed).

OSC should not appear in `requirements.txt` unless the plugin project wants OSC and all of its dependencies installed with it. This is specifically not a good idea for plugins that are also libraries installed with OpenStack services.

.. code-block:: ini

    python-openstackclient>=X.Y.Z # Apache-2.0

Checklist for adding new OpenStack plugins
==========================================

Creating the initial plugin described above is the first step. There are a few more steps needed to fully integrate the client with openstackclient.

Add the command checker to your CI
---------------------------------

#. Add `openstackclient-plugin-jobs` to the list of job templates for your project. These jobs ensure that all plugin libraries are co-installable with `python-openstackclient` and checks for conflicts across all OpenStackClient plugins, such as duplicated commands, missing entry points, or other overlaps.

#. Add your project to the `required-projects` list in the `.zuul.yaml` file in the `openstack/openstackclient` repo.

Changes to python-openstackclient
---------------------------------

#. In `doc/source/plugins.rst`, update the `Adoption` section to reflect the status of the project.

#. Update `doc/source/commands.rst` to include objects that are defined by fooclient's new plugin.

#. Update `doc/source/plugin-commands.rst` to include the entry point defined in fooclient. We use `sphinxext` to automatically document commands that are used.
Update `test-requirements.txt` to include fooclient. This is necessary to auto-document the commands in the previous step.

.. _sphinxext: https://docs.openstack.org/stevedore/latest/user/sphinxext.html

== Command Logs ==

Logger usage in OpenStackClient is not exactly the same as those in other OpenStack projects. The following basic rules should be followed.

1. OpenStackClient uses python standard logging library instead of oslo.log so that it will depend on oslo as little as possible.

2. All logs except debug log need to be translated. The log message strings that need to be translated should follow the rule of i18n guidelines: https://docs.openstack.org/oslo.i18n/latest/user/guidelines.html

3. There are mainly two kinds of logs in OpenStackClient: command specific log and general log. Use different logger to record them. The examples below will show the detail.

Command specific log

Command specific logs are those messages that used to record info, warning and error generated from a specific command. OpenStackClient uses the logger of the module the command belongs to to record the command specific logs.

Example

```
import logging
from openstackclient.i18n import _

LOG = logging.getLogger(__name__)  # Get the logger of this module

# ...

LOG.error(_("Error message"))
LOG.warning(_("Warning message"))
```
General log
============

General logs are those messages that not specific to any single command. Use the logger of `openstackclient.shell` to record them. In each command class, we can simply get this logger by `self.app.log`.

Example
~~~~~~

This example shows how to log general logs in OpenStackClient.

```python
from openstackclient.i18n import _

self.app.log.error(_("Error message"))
self.app.log.warning(_("Warning message"))
self.app.log.info(_("Info message"))
self.app.log.debug("Debug message")  # Debug messages do not need to be translated
```

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===============
Command Options
===============

OpenStackClient commands all have a set of zero or more options unique to the command, however there are of course ways in which these options are common and consistent across all of the commands that include them.

These are the set of guidelines for OSC developers that help keep the interface and commands consistent.

In some cases (like the boolean variables below) we use the same pattern for defining and using options in all situations. The alternative of only using it when necessary leads to errors when copy-n-paste is used for a new command without understanding why or why not that instance is correct.

The `ref:`hig` describes the guidelines for option names and usage.
In short:

* All option names shall be GNU-style long names (two leading dashes).
* Some global options may have short names, generally limited to those defined in support libraries such as `cliff`

General Command Options

Boolean Options

Boolean options for any command that sets a resource state, such as 'enabled' or 'public', shall always have both positive and negative options defined. The names of those options shall either be a naturally occurring pair of words (in English) or a positive option and a negative option with 'no-' prepended (such as in the traditional GNU option usage) like `--share` and `--no-share`. 
In order to handle those APIs that behave differently when a field is set to `None` and when the field is not present in a passed argument list or dict, each of the boolean options shall set its own variable to `True` as part of a mutually exclusive group, rather than the more common configuration of setting a single destination variable `True` or `False` directly. This allows us to detect the situation when neither option is present (both variables will be `False`) and act accordingly for those APIs where this matters.

This also requires that each of the boolean values be tested in the `take_action()` method to correctly set (or not) the underlying API field values.

.. option:: --enable

   Enable <resource> (default)

.. option:: --disable

   Disable <resource>

Implementation
~~~~~~~~~~~~~~

The parser declaration should look like this:

.. code-block:: python

   enable_group = parser.add_mutually_exclusive_group()
   enable_group.add_argument(
      '--enable',
      action='store_true',
      help=_('Enable <resource> (default)'),
   )
   enable_group.add_argument(
      '--disable',
      action='store_true',
      help=_('Disable <resource>'),
   )

   An example handler in `take_action()`:

   .. code-block:: python

      # This leaves 'enabled' undefined if neither option is present
      if parsed_args.enable:
         kwargs['enabled'] = True
      if parsed_args.disable:
kwargs['enabled'] = False

Options with Choices
---------------------

Some options have a specific set of values (or choices) that are valid. These choices may be validated by the CLI. If the underlying API is stable and the list of choices are unlikely to change then the CLI may validate the choices. Otherwise, the CLI must defer validation of the choices to the API. If the option has a default choice then it must be documented.

Having the CLI validate choices will be faster and may provide a better error message for the user if an invalid choice is specified (for example: `argument --test: invalid choice: 'choice4' (choose from 'choice1', 'choice2', 'choice3')`). The trade-off is that CLI changes are required in order to take advantage of new choices.

Implementation
~~~~~~~~~~~~~~

An example parser declaration:

```python
code-block:: python

    choice_option.add_argument("--test",
        metavar='<test>',
        choices=['choice1', 'choice2', 'choice3'],
        help=(_('Test type (choice1, choice2 or choice3)')),
    )
```

Options with Multiple Values
-----------------------------

Some options can be repeated to build a collection of values for a property. Adding a value to the collection must be provided via the `set` action. Removing a value from the collection must be provided via an `unset` action. As a convenience, removing all values from the collection may be provided via a `--no` option on the `set` action and a `--all` option on `unset` action. If both `--no` option and option are specified, the values specified on the command would overwrite the collection property instead of appending on the `set` action. The `--all` option must be part of a mutually exclusive group with the related property option on the `unset` action, overwrite case don't exist in `unset` action.

An example behavior for `set` action:

Append:
object set --example-property xxx

Overwrite:

object set --no-example-property --example-property xxx

The example below assumes a property that contains a list of unique values. However, this example can also be applied to other collections using the appropriate parser action and action implementation (e.g. a dict of key/value pairs). Implementations will vary depending on how the REST API handles adding/removing values to/from the collection and whether or not duplicate values are allowed.

Implementation

An example parser declaration for `set` action:

```
.. code-block:: python

    parser.add_argument(
        '--no-example-property',
        dest='no_example_property',
        action='store_true',
        help=_('Remove all example properties for this <resource> (specify both --no-example-property and --example-property to remove the current properties before setting new properties).'),
    )
    parser.add_argument(
        '--example-property',
        metavar='<example-property>',
        dest='example_property',
        action='append',
        help=_('Example property for this <resource> (repeat option to set multiple properties)'),
    )
```

Please make `--no-example-property` be shown in front of `--example-property` in the help, like above, that help make users aware of the processing order.

An example handler in `take_action()` for `set` action:
if parsed_args.no_example_property and parsed_args.example_property:
    kwargs['example_property'] = parsed_args.example_property
elif parsed_args.no_example_property:
    kwargs['example_property'] = []
elif parsed_args.example_property:
    kwargs['example_property'] = resource_example_property + parsed_args.example_property

An example parser declaration for `unset` action:

```python
example_property_group = parser.add_mutually_exclusive_group()
extample_property_group.add_argument(
    '--example-property',
    metavar='<example-property>',
    dest='example_property',
    action='append',
    help=_('Example property for this <resource> (repeat option to remove multiple properties)'),
)
extample_property_group.add_argument(
    '--all-example-property',
    dest='all_example_property',
    action='store_true',
    help=_('Remove all example properties for this <resource>'),
)
```

An example handler in `take_action()` for `unset` action:

```python
if parsed_args.example_property:
    kwargs['example_property'] = list(set(resource_example_property) - set(parsed_args.example_property))
if parsed_args.all_example_property:
    kwargs['example_property'] = []
```

Required Options

Some options have no default value and the API does not allow them to be `None`, then these options are always required when users use the command to which these options belong.
Required options must be validated by the CLI to avoid omissions. The CLI validation may provide an error message for the user if a required option is not specified. (for example: ```error: argument --test is required```

```
.. option:: --test

Test option (required)
```

**Implementation**

The parser declaration should look like this:

```
.. code-block:: python

    parser.add_argument(
         '--test',
         metavar='<test>',
         required=True,
         help=_(Test option (required)),
    )
```

**List Command Options**

**Additional Fields**

Most list commands only return a subset of the available fields by default. Additional fields are available with the `--long` option. All list commands should allow `--long` even if they return all fields by default.

```
.. option:: --long

List additional fields in output
```

**Implementation**

The parser declaration should look like this:

```
.. code-block:: python

    parser.add_argument(
         '--long',
         action='store_true',
         default=False,
    )
```
Pagination

There are many ways to do pagination, some OpenStack APIs support it, some don't. OpenStackClient attempts to define a single common way to specify pagination on the command line.

.. option:: --marker <resource>

   Anchor for paging (name or ID)

.. option:: --limit <num-resources>

   Limit number of <resource> returned (*integer*)

Implementation

The parser declaration should look like this:

.. code-block:: python

    parser.add_argument(
        "--marker",
        metavar="<resource>",
        help="Anchor for paging (name or ID)",
    )

    parser.add_argument(
        "--limit",
        metavar="<num-resources>",
        type=int,
        help="Limit the number of <resource> returned",
    )

.. _command-beta:

Command Beta

OpenStackClient releases do not always coincide with OpenStack releases. This creates challenges when developing new OpenStackClient commands for the current OpenStack release under development since there may not be an official release of the REST API enhancements necessary for the command. In addition, backwards
compatibility may not be guaranteed until an official OpenStack release. To address these challenges, an OpenStackClient command may be labeled as a beta command according to the guidelines below. Such commands may introduce backwards incompatible changes and may use REST API enhancements not yet released. This also applies to command options associated with the beta command object.

See the examples below on how to label an entire command or a specific option as a beta by updating the documentation and implementation.

The initial release note must label the new command or option as a beta. No further release notes are required until the command or option is no longer a beta. At which time, the beta label or the command or option itself must be removed and a new release note must be provided.

Beta Command Example
---------------------

Documentation
~~~~~~~~~~~~~~

The command documentation must label the command as a beta.

element list
++++++++++++

List examples

.. caution:: This is a beta command and subject to change.
    Use global option `--os-beta-command` to enable this command.

.. program:: example list
.. code:: bash

    openstack example list

Help
~~~

The command help must label the command as a beta.

.. code-block:: python

    class ShowExample(command.ShowOne):
"""Display example details

(Caution: This is a beta command and subject to change.
Use global option --os-beta-command to enable
this command)
"""

Implementation
~~~~~~~~~~~~~~

The command must raise a "CommandError" exception if beta commands
are not enabled via "--os-beta-command" global option.

.. code-block:: python

    def take_action(self, parsed_args):
        self.validate_os_beta_command_enabled()

Beta Option Example
-------------------

Documentation
~~~~~~~~~~~~~~

The option documentation must label the option as a beta.

.. option:: --example <example>

Example

.. caution:: This is a beta command option and subject
to change. Use global option "--os-beta-command"
to enable this command option.

Implementation
~~~~~~~~~~~~~~

The option must not be added if beta commands are not
enabled via "--os-beta-command" global option.

.. code-block:: python

    def get_parser(self, prog_name):
        if self.app.options.os_beta_command:
            parser.add_argument(  
                '--example',
                metavar='<example>',
                help=_("Example")
            )
1.431 qrencode-libs 3.4.1 3.el7

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)
* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.
* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <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 <moinl8@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

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

1.436 rhnsd 5.0.13 10.el7

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/* CMU libasasl
 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.440 unzip 6.0 19.el7

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther’s Mac OS File Manager interface code; and Christopher Evans’ MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

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The original unzip source code has been extensively modified and
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rather than sequential; replacement of unimplode() with explode();
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placement of output routines; addition of inflate(), wildcards,
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tell, only the core code of the unreduce method remained substantially
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1.443 python-xstatic-magic-search 0.2.0.1

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```
<program>  Copyright (C) <year>  <name of author>
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```

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;ELC
;;; Compiled by gm@skiddaw on Fri Mar  8 00:17:33 2013
;;; from file /misc/emacs/bzr/emacs24-merge/lisp/emacs-lisp/copyright.el
;;; in Emacs version 24.3.1
;;; with all optimizations.

;;; This file contains utf-8 non-ASCII characters,
;;; and so cannot be loaded into Emacs 22 or earlier.
(and (boundp 'emacs-version)
  (< (aref emacs-version (1- (length emacs-version))) ?A)
  (string-lessp emacs-version "23")
  (error """"%s' was compiled for Emacs 23 or later" "$))

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(byte-code
 "300\301\302\303\304\305%\210\306\307\310\311\304\301\312\313&\210\306\314\303\315\304\301\312\316\317\320&
 \210\306\321\322\323\304\301\312\324&\210\306\325\326\327\304\301\312\324&\210\306\330\331\332\304\301\312\324&\210\306\333\334\304\301\312\316\317\335&\210\306\336\337\340\304\301\312\341&\207" [custom-declare-group copyright nil "Update the copyright notice in current buffer." :group tools custom-declare-variable copyright-limit 2000 "Don't try to update copyright beyond this position unless interactive:\nA value of nil means to
search whole buffer." :type (choice (integer :tag "Limit") (const :tag "No limit")) copyright-at-end-flag "Non-nil means to search backwards from the end of the buffer for copyright.\nThis is useful for ChangeLogs." boolean :version "23.1" copyright-regexp "\(\|@copyright{}\|\[Cc\]opyright\s *:?\s *\(?(C)\)?\|\[Cc\]opyright\s *:?\s *\\\\|\[0-9-9a-n]\s *\\\\|\(1-9\)\|\(1-9\)\|\(*\%\#\n\|\s<\|\s>\)*\[0-9-9]\)" "What your copyright notice looks like.\nThe second \(\|\) construct must match the years." regexp copyright-names-regexp "Regexp matching the names which correspond to the user.\nOnly copyright lines where the name matches this regexp will be updated.\nThis allows you to avoid adding years to a copyright notice belonging to someone else or to a group for which you do not work." copyright-years-regexp \(\s *\)\([1-9]\([\-0-9, ';/*%#\t\n]\|\s<\|\s>\)*\[0-9\]+\) "Match additional copyright notice years.\nThe second \(\|\) construct must match the years." copyright-year-ranges "Non-nil if individual consecutive years should be replaced with a range.\nFor example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008.\n\nIf you use ranges, you should add an explanatory note in a README file.\nThe function `copyright-fix-years' respects this variable." "24.1" copyright-query 'function "If non-nil, ask user before changing copyright.\nWhen this is 'function', only ask when called non-interactively." (choice (const :tag "Do not ask") (const :tag "Ask unless interactive") (other :tag "Ask" t)) 10

#@60 String representing the current version of the GPL or nil.
(defconst copyright-current-gpl-version "3" (#$ . 2656))

#@75 The function 'copyright-update' sets this to nil after updating a buffer.
(defvar copyright-update t (#$ . 2778))

#@39 String representing the current year.
(defvar copyright-current-year (format-time-string "%Y") (#$ . 2898))

(put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)

#@69 Re-search forward or backward depending on 'copyright-at-end-flag'.
(defalias 'copyright-re-search #\[(regexp &optional bound noerror count) "\(\|\)\(\[ 	\]*\)\(\n\)?\("\)\(\)\] re-search-backward re-search-forward\] 5 (#$ . 3189))

#@70 Return point-min or point-max, depending on 'copyright-at-end-flag'.
(defalias 'copyright-start-point #\[nil "20\d\d\d\-\d\d\d\e\\V\d\d\d"\] 1 (#$ . 3479))

#@65 Return non-nil if point is too far from the edge of the buffer.
(defalias 'copyright-offset-too-large-p #\[nil "20\d\d\d\-\d\d\d\e\\V\d\d\d"\] 3 (#$ . 3653))

#@218 Return non-nil if a copyright header suitable for updating is found.

The header must match 'copyright-regexp' and 'copyright-names-regexp', if set. This function sets the match-data that 'copyright-update-year' uses.

(put 'copyright-find-copyright #\[nil "20\d\d\d\-\d\d\d\e\\V\d\d\d"\] #\[nil "20\d\d\d\e\\V\d\d\d"\] 3 (#$ . 3862))

#@175 Possibly adjust the search performed by 'copyright-find-copyright'.

If the years continue on multiple lines that are marked as comments, skips to the end of all the years.

(defalias 'copyright-update-year #\[replace noquery) "20\d\d\d\e\\V\d\d\d" #\[nil "20\d\d\d\e\\V\d\d\d"\] 3 (#$ . 4487))

(defalias 'copyright-update-year #\[replace noquery) "20\d\d\d\e\\V\d\d\d" #\[nil "20\d\d\d\e\\V\d\d\d"\] 3 (#$ . 4487))

Open Source Used In Cisco VIM 3.4.36760
Update copyright notice to indicate the current year. If necessary, and `copyright-current-gpl-version' is set, any copying permissions following the copyright are updated as well.

If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively.

Convert 2 digit years to 4 digit years. Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.

If `copyright-year-ranges' (which see) is non-nil, also independently replaces consecutive years with a range.

This is a skeleton command (see `skeleton-insert'). Normally the skeleton text is inserted at point, with nothing "inside".

This is Open Source Used In Cisco VIM 3.4.36761

Open Source Used In Cisco VIM 3.4.36761
If there is a highlighted region, the skeleton text is wrapped around the region text.

A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.
(defalias 'copyright #((&optional str arg) "#\[" &"\" \"#\" \" Company: " comment-start
"Copyright (C) " (format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str) '(if (copyright-offset-too-large-p) (message "Copyright extends beyond 'copyright-limit' and won't be updated automatically.") comment-end n] 4 (#$ . 8883) "**PuP**"))
#@122 Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run 'copyright-fix-years' instead.
(defalias 'copyright-update-directory #\(directory match &optional fix) "\306\310$
\310E@\311
!\204=\312\313"
!\210*
\2032\316 \
)\320\321p!\210A\211\204
\310*\207" [directory match file --dolist-tail-- enable-local-eval enable-local-variables directory-files t nil file-directory-p message "Updating file ´%s´" :safe find-file copyright-fix-years copyright-update save-buffer kill-buffer inhibit-read-only fix] 6 (#$ . 9815) "DDirectory: \nFilenames matching (regexp): "]
(provide 'copyright)
;;; copyright.el --- update the copyright notice in current buffer

;;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,
;;; Inc.

;;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;;; Keywords: maint, tools

;;; This file is part of GNU Emacs.

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;;; the Free Software Foundation, either version 3 of the License, or
;;; (at your option) any later version.

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;;; GNU General Public License for more details.

;;; You should have received a copy of the GNU General Public License
;;; along with GNU Emacs. If not, see <http://www.gnu.org/licenses/>.

;;; Commentary:

;;; Allows updating the copyright year and above mentioned GPL version manually
;;; or when saving a file.
;;; Do (add-hook 'before-save-hook 'copyright-update), or use
(defgroup copyright nil
"Update the copyright notice in current buffer."
:group 'tools)

(defcustom copyright-limit 2000
"Don't try to update copyright beyond this position unless interactive.
A value of nil means to search whole buffer."
:group 'copyright
:type '(choice (integer :tag "Limit")
(const :tag "No limit")))

(defcustom copyright-at-end-flag nil
"Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
:group 'copyright
:type 'boolean
:version "23.1")

;;;;# #autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)

(defcustom copyright-regexp
"\(\|@copyright{}\|\[Cc\]opyright\s *:\s *\(?:(C)\)?\|\[Cc\]opyright\s *:\s *\)\s *\(?:\[^0-9\n]*\s *\)?\(\[1-9]\(\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*\[0-9]+\)
"What your copyright notice looks like.
The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

(defcustom copyright-names-regexp 
""
"Regexp matching the names which correspond to the user.
Only copyright lines where the name matches this regexp will be updated.
This allows you to avoid adding years to a copyright notice belonging to
someone else or to a group for which you do not work."
:group 'copyright
:type 'regexp)

;;;; The worst that can happen is a malicious regexp that overflows in
;;;; the regexp matcher, a minor nuisance. It's a pain to be always
;;;; prompted if you want to put this in a dir-locals.el.
;;;;###autoload(put ‘copyright-names-regexp ‘safe-local-variable ‘stringp)

(defcustom copyright-years-regexp
"\s *\[\(\1-9\)\\[\(-0-9, \.'*%#\n\t\]\|\s<\|\s>\)*\[0-9]+\]\)
"
"Match additional copyright notice years.
The second `\(( )\)` construct must match the years."
:group 'copyright
:type 'regexp)

;; See "Copyright Notices" in maintain.info.
;; TODO? `end` only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
(defvar copyright-year-ranges nil
"Non-nil if individual consecutive years should be replaced with a range.
If you use ranges, you should add an explanatory note in a README file.
The function `copyright-fix-years` respects this variable."
:group 'copyright
:type 'boolean
:version "24.1")

;;;###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)

(defvar copyright-query 'function
"If non-nil, ask user before changing copyright.
When this is `function', only ask when called non-interactively."
:group 'copyright
:type '(choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t))

;; when modifying this, also modify the comment generated by autoinsert.el
(defvar copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil.")

(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
"String representing the current year.")

(defsubst copyright-limit () ; re-search-forward BOUND
(and copyright-limit
  (if copyright-at-end-flag
      (- (point) copyright-limit)
      (+ (point) copyright-limit)))))

(defun copyright-re-search (regexp &optional bound noerror count)
"Re-search forward or backward depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
  (re-search-backward regexp bound noerror count)
  (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
  "Return point-min or point-max, depending on \`copyright-at-end-flag\'."
  (if copyright-at-end-flag
     (point-max)
     (point-min)))

(defun copyright-offset-too-large-p ()
  "Return non-nil if point is too far from the edge of the buffer."
  (when copyright-limit
    (if copyright-at-end-flag
        (< (point) (- (point-max) copyright-limit))
        (> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found.
  The header must match \`copyright-regexp' and \`copyright-names-regexp', if set.
  This function sets the match-data that \`copyright-update-year' uses."
  (widen)
  (goto-char (copyright-start-point))
  (condition-case err
    ;; (1) Need the extra \( \) around copyright-regexp because we
    ;; goto (match-end 1) below. See note (2) below.
    (copyright-re-search (concat \("\)\([ \\	]*
\)?.*\(:"\)
      copyright-names-regexp \("\)\)
    )
    (copyright-limit)
    t)
    ;; In case the regexp is rejected. This is useful because
    ;; copyright-update is typically called from before-save-hook where
    ;; such an error is very inconvenient for the user.
    (error (message "Can't update copyright: %s" err) nil))

(defun copyright-find-end ()
  "Possibly adjust the search performed by \`copyright-find-copyright'.
  If the years continue onto multiple lines that are marked as comments,
  skips to the end of all the years."
  (while (save-excision
    (and (eq (following-char) ?) )
  (progn (forward-char 1) t)
  (progn (skip-chars-forward " \t") (eolp))
  comment-start-skip
  (save-match-data
    (forward-line 1)
    (and (looking-at comment-start-skip
      (goto-char (match-end 1))
      )
      ;; (2) The regexp \( \) is not needed here because we are
      ;; going to \( match-end 1 \) below. However, if the
      ;; \( \) is not there, then we have a syntax error.
      ;; This is useful because as noted in note (1), such
      ;; errors are very inconvenient for the user.
    )
  )
  )"
(goto-char (match-end 0))))
(looking-at-p copyright-years-regexp)))
(forward-line 1)
(re-search-forward comment-start-skip)
;; (2) Need the extra \( \) so that the years are subexp 3, as
;; they are at note (1) above.
(re-search-forward (format "\(%s\)" copyright-years-regexp))))

(defun copyright-update-year (replace noquery)
    ;; This uses the match-data from copyright-find-copyright/end.
    (goto-char (match-end 1))
    (copyright-find-end)
    (setq copyright-current-year (format-time-string "%Y"))
    (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
        substring copyright-current-year -2))
    (if (or noquery
        (save-window-excursion
            (switch-to-buffer (current-buffer))
            ;; Fixes some point-moving oddness (bug#2209).
            (save-excursion
                (y-or-n-p (if replace
                    (concat "Replace copyright year(s) by ":
                    copyright-current-year "? ")
                (concat "Add ": copyright-current-year
                    ": to copyright? ":))))))
        (if replace
            (replace-match copyright-current-year t t nil 3)
        (let ((size (save-excursion (skip-chars-backward "0-9"))))
            (if (and (eq (% (- (string-to-number copyright-current-year)
                (string-to-number (buffer-substring
                    (+ (point) size)
                (point)))
            100)
            1)
                (or (eq (char-after (+ (point) size -1)) ?-)
            (eq (char-after (+ (point) size -2)) ?-)))
            ;; This is a range so just replace the end part.
            (delete-char size)
            ;; Insert a comma with the preferred number of spaces.
            (insert
                (save-excursion
                    (if (re-search-backward "[0-9]\( *, *\)[0-9]"
                        (line-beginning-position) t)
                        (match-string 1)
                    ". ")
                ;; If people use the '91 '92 '93 scheme, do that as well.
                (if (eq (char-after (+ (point) size -3)) ?)
                    (insert ?>))
                )
            ))
;;; Finally insert the new year.
(insert (substring copyright-current-year size)))))

;;;###autoload
(defun copyright-update (&optional arg interactivep)
  "Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*P")
(when (or (copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
    (and (eq copyright-query 'function) interactivep))))
    (save-excursion
      (save-restriction
        ;; If names-regexp doesn't match, we should not mess with
        ;; the years _or_ the GPL version.
        ;; TODO there may be multiple copyrights we should update.
        (when (copyright-find-copyright)
          (copyright-update-year arg noquery)
          (goto-char (copyright-start-point))
          (and copyright-current-gpl-version
            ;; Match the GPL version comment in .el files.
            ;; This is sensitive to line-breaks. :( 
            (copyright-re-search
              "the Free Software Foundation\[;\n\].*either version \(\[0-9]+\)\(?: of the License\)?, or\ [\n].*any later version"
              copyright-limit) t)
            ;; Don't update if the file is already using a more recent
            ;; version than the "current" one.
            (< (string-to-number (match-string 1))
              (string-to-number copyright-current-gpl-version))
            (or noquery
              (save-match-data
                (goto-char (match-end 1))
                (save-window-excursion
                  (switch-to-buffer (current-buffer)))
                (y-or-n-p
                  (format "Replace GPL version %s with version %s? "
                    (match-string-no-properties 1)
                    copyright-current-gpl-version))))
            (replace-match copyright-current-gpl-version t t nil 1)))))
      (set (make-local-variable 'copyright-update) nil)))))
(defun copyright-fix-years ()
  "Convert 2 digit years to 4 digit years.
  Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
  If `copyright-year-ranges' (which see) is non-nil, also
  independently replaces consecutive years with a range."
  (interactive)
  ;; TODO there may be multiple copyrights we should fix.
  (if (copyright-find-copyright)
      (let ((s (match-beginning 3))
            (p (make-marker))
            ;; Not line-beg-pos, so we don't mess up leading whitespace.
            (copystart (match-beginning 0))
            e last sep year prev-year first-year range-start range-end)
      ;; In case years are continued over multiple, commented lines.
      (goto-char (match-end 1))
      (copyright-find-end)
      (setq e (copy-marker (1+ (match-end 3)))))
  (goto-char s)
  (while (re-search-forward "[0-9]+" e t)
    (set-marker p (point))
    (goto-char (match-beginning 0))
    (setq year (string-to-number (match-string 0)))
    (and (setq sep (char-before))
         (=/ (char-syntax sep) ?\s)
         (=/ sep ?-)
         (insert " ")
    (when (< year 100)
      (insert (if (>= year 50) "19" "20"))
      (setq year (+ year (if (>= year 50) 1900 2000))))
    (goto-char p)
    (when (copyright-year-ranges)
      ;; If the previous thing was a range, don't try to tack more on.
      ;; TODO should merge into existing range if possible.
      (if (eq sep ?-)
          (setq prev-year nil
                year nil)
        (if (and prev-year (= year (1+ prev-year)))
            (setq range-end (point))
        (when (and first-year prev-year
                        (> prev-year first-year))
            (goto-char range-end)
            (delete-region range-start range-end)
            (insert (format ",%d" prev-year)))
      (setq year (1+ year)))
    (setq e (copy-marker (1+ (match-end 3))))
    (goto-char s)))
(goto-char p))
(setq first-year year
  range-start (point))))
(setq prev-year year
  last p))

(when last
  (when (and copyright-year-ranges
    first-year prev-year
    (> prev-year first-year))
    (goto-char range-end)
    (delete-region range-start range-end)
    (insert (format "-%d" prev-year)))
  (goto-char last)
  ;; Don't mess up whitespace after the years.
  (skip-chars-backward " ")
  (save-restriction
    (narrow-to-region copystart (point))
    ;; This is clearly wrong, eg what about comment markers?
    ;; (let ((fill-prefix " "))
    ;;  ;;; TODO do not break copyright owner over lines.
    (fill-region (point-min) (point-max))))
  (set-marker e nil)
  (set-marker p nil))

  ;; Simply reformating the years is not copyrightable, so it does
  ;; not seem right to call this. Also it messes with ranges.
  ;;(copyright-update nil t))
  (message "No copyright message"))

;;;###autoload
(define-skeleton copyright
  "Insert a copyright by $ORGANIZATION notice at cursor."
  "Company: 
comment-start
"Copyright (C) " (format-time-string "%Y") " by 
(or (getenv "ORGANIZATION")
str)
(if (copyright-offset-too-large-p)
  (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")
comment-end 
)

;;; TODO: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
  "Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead."
  (interactive "DDirectory: 
MFilenames matching (regexp): ")
  (dolist (file (directory-files directory t match nil))
    (unless (file-directory-p file)
(message "Updating file `\%s'" file)
;; FIXME we should not use find-file+save+kill.
(let ((enable-local-variables :safe)
      (enable-local-eval nil))
  (find-file file))
(let ((inhibit-read-only t))
  (if fix
      (copyright-fix-years)
      (copyright-update)))
  (save-buffer)
  (kill-buffer (current-buffer))))

(provide 'copyright)

;; For the copyright sign:
;; Local Variables:
;; coding: utf-8
;; End:

;;; copyright.el ends here
Copyright (C) 2007-2013 Free Software Foundation, Inc.
See the end of the file for license conditions.

NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format:
"Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option. Do not install any of your own changes in the same commit.
3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (e.g., ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not necessary to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, e.g., "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (e.g., Gnus, MH-E), but I think in every case this happens automatically (?). All README (and other such text files) that are non-trivial should
contain copyright statements and GPL license notices, exactly as .el
files do (see e.g. README in the top-level directory). Before 2007,
we used a simple, short statement permitting copying and modification
provided legal notices were retained. In Feb 2007 we switched to the
standard GPL text, on legal advice. Some older text files in etc/
should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded
in a README file in each directory with images. (Legal advice says
that we need not add notices to each image file individually, if they
allow for that.). It is recommended to use the word "convert" to
describe the automatic process of changing an image from one format to

When installing a file with an "unusual" license (after checking first
it is ok), put a copy of the copyright and license in the file (if
possible. It's ok if this makes the file incompatible with its
original format, if it can still be used by Emacs), or in a README
file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the
GPL. A few files (mainly related to language and charset support) are
copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa
with questions about legal issues in such files.) In all these cases,
the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and
these are listed below for reference, together with any files where
the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok,
and note them in this file. This includes missing copyright notices,
and "odd" copyright holders. In most cases, individual authors should
not appear in copyright statements. Either the copyright has been
assigned (check copyright.list) to the FSF (in which case the original
author should be removed and the year(s) transferred to the FSF); or
else it is possible the file should not be in Emacs at all (please
report!).

Note that it seems painfully clear that one cannot rely on commit logs,
or even ChangeLogs, for older changes. People often installed changes
from others, without recording the true authorship.

[For reference, most of these points were established via email with
rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed.
Consult older versions of this document if interested.]

lisp/version.el          # emacs-copyright
lib-src/ebrowse.c        # version
lib-src/etags.c          # print_version
lib-src/rcs2log          # Copyright
Cocoa/Emacs.base/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright' in admin.el will do all the above.

aclocal.m4
configure
m4/*.m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

/etc/refcards/*.tex
also update the \def\year macro for the latest year.

/etc/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we
can consider it part of Emacs, and he has a blander disclaimer for
Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug",
2007028)

/etc/letter.pbm,letter.xpm
- trivial, no notice needed.

/etc/FTP, ORDERS
- trivial (at time of writing), no license needed

/etc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT,
WHY-FREE
rms: "These are statements of opinion or testimony. Their licenses
should permit verbatim copying only. Please don't change the
licenses that they have. They are distributed with Emacs but they
are not part of Emacs."

/etc/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of Emacs (and written by those with assignments), a standard notice is fine.

/etc/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit, ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QI-b5.tit, QI.tit, SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns, pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold. After some investigation in Feb 2007, then to the best of our knowledge we believe that the original 1984 Emacs version was based on the version in BSD4.2. See for example this 1985 post from Ken Arnold: <http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>
I have received enough requests for the current source to ctags to post it. Here is the latest version (what will go out with 4.3, modulo any bugs fixed during the beta period). It is the 4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources: <http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the University of California and a revised BSD license. The terms of this require that the full license details be available in binary distributions - hence the file etc/ETAGS.README. The fact that the --version output just says "Copyright <year> FSF" is apparently OK from a legal point of view.

lisp/cedet/semantic/imenu.el
- See http://lists.gnu.org/archive/html/emacs-devel/2010-03/msg00410.html in which Eric Ludlam established that the remaining contributions from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe (2007/1) there is no problem with our use of the name "tetris" or the concept.

rms: "My understanding is that game rules as such are not copyrightable."

rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/

rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h
The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs. So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.

doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*/*.texi - All manuals should be under GFDL (but see below), and should include a copy of it, so that they can be distributed separately. faq.texi has a different license, for some reason no-one can remember.
msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie. Leave the copyrights alone. Leave the Eli Zaretskii copyright in is_exec.c alone. See the msdos/README file for the legal history of these files.

msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"): It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and
GPL, but no ChangeLog entry:
<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glIBC>

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

/etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it.” It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

  I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

  Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and
HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may
wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

/etc/e/ETERM-COLOR.TI
src/ndir.h
On legal advice from Matt Norwood, the following comment was added
to these files in Feb/Mar 2007:

    The code here is forced by the interface, and is not subject to
    copyright, constituting the only possible expression of the
    algorithm in this format.

    With the addition of this notice, these files are OK for the
    upcoming Emacs-22 release. Post-release, we can revisit this issue
    and possibly add a list of all authors who have changed these files.
    (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights
till Feb 2007, when FSF copyright was added. Matt Norwood advised:

    For now, I think the best policy is to assume that we do have
    assignments from the authors (I recall many of these header files
    as having been originally written by rms), and to attach an FSF
    copyright with GPL notice. We can amend this if and when we
    complete the code audit. Any additions to these files by
    non-assigned authors are arguably "de minimis" contributions to
    Emacs: small changes or suggestions to a work that are subsumed in
    the main authors' copyright in the entire work.

    Here is my (rgm) take on the details of the above files:
? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based
on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4-2.h, which was and is
copyright FSF. Only tiny changes since installed.

aix3-2-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember
anything about it. If I put it in without other comment, then probably
I wrote it myself."

Someone might want to tweak the copyright years (for dates before
2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some
files I thought might be considered non-trivial (if one includes
comment) in s/:
aix4-1.h hpux10.h irix6-5.h
sol2.h
(everything with > 30 non-blank lines, which at least is _some_ kind of
system)

*** These are copyright issues that need not be fixed until after
Emacs 22 is released (though if they can be fixed before, that is
obviously good):

Is it OK to just `bzr remove' a file for legal reasons, or is
something more drastic needed? A removed file is still available from
the repository, if suitable options are applied. (This issue obviously
does not affect a release).
rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are
noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
- Restore if find legal info. emacs21.ico is not due to Davenport.
Geoff Voelker checked but could not find a record of where it came from.

/etc/images
Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

/etc/TUTORIAL* (translations)
switch to GPL (see english TUTORIAL)
rms: "We can leave the TUTORIAL translations alone until their maintainers update them."
Can adapt short license text from end of GPL translations at:
http://www.gnu.org/licenses/translations.html
Only a few sentences around the license notice need changing from previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg those included from Gnulib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from Gnulib again). These are:

Gnulib:
  build-aux/compile
  build-aux/config.guess
  build-aux/config.sub
  build-aux/depcomp
  build-aux/missing
  build-aux/move-if-change
  build-aux/snippet/_Noreturn.h
  build-aux/snippet/arg-nnonnull.h
  build-aux/snippet/c++defs.h
  build-aux/snippet/warn-on-use.h
Note _not_ included in the above are src/regex.{c,h} (rms: "That forked version is only in Emacs, so definitely relicense that."), and oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright, and msdos/is_exec.c and sigaction.c.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later. (rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

- leim/MISC-DIC/CTLau-b5.html  >= v2
- leim/MISC-DIC/CTLau.html     >= v2
  (above included in lisp/international/titdic-cnv.el)
- leim/MISC-DIC/pinyin.map     >= v1
- leim/MISC-DIC/ziranma.cin    >= v1
- leim/SKK-DIC/SKK-JISYO.L     >= v2
- leim/SKK-DIC/README          >= v2
- leim/ja-dic/ja-dic.el        >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

- etc/images/gnus/README
- etc/images/mail/README
- etc/images/README
- nt/icons/README

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along with GNU Emacs.  If not, see <http://www.gnu.org/licenses/>.
(For more information about the GNU project and free software,
look at the files `GNU', `COPYING', and `DISTRIB'; in the same
directory as this file.)

Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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without royalty; alteration is not permitted.

Introduction
************

The existence of software inevitably raises the question of how
decisions about its use should be made.  For example, suppose one
individual who has a copy of a program meets another who would like a
copy.  It is possible for them to copy the program; who should decide
whether this is done?  The individuals involved?  Or another party,
called the "owner"?

Software developers typically consider these questions on the
assumption that the criterion for the answer is to maximize developers'
profits.  The political power of business has led to the government
adoption of both this criterion and the answer proposed by the
developers: that the program has an owner, typically a corporation
associated with its development.

I would like to consider the same question using a different
criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform
to ethics, not the other way around.  Nor does current practice decide
disposition, although it may suggest possible answers.  The only way
to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free" software.(1)

How Owners Justify Their Power

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as 'making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.
Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

The Argument against Having Owners
**********************************

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how
Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use. In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road—but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software
======================================

Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can
only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.

* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people’s decisions have on their subsequent feelings, attitudes and predispositions. These changes in people’s ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

Obstructing Use of Programs
===========================

The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in
delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

Damaging Social Cohesion

Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so
they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, “Will I be permitted to use it?” his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States is not technical innovation, but rather the willingness to work together for the public good. It makes no sense to encourage the former at the expense of the latter.

Obstructing Custom Adaptation of Programs
==========================================

The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box--that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as `+` for addition and `-` for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance (p0, p1)
    struct point p0, p1;
{
    float xdist = p1.x - p0.x;
```

---

**Open Source Used In Cisco VIM 3.4.36789**
float ydist = p1.y - p0.y;
return sqrt (xdist * xdist + ydist * ydist);
}

Here is the same program in executable form, on the computer I normally use:

```
1314258944   -232267772   -231844864   1634862
1411907592   -231844736   2159150      1420296208
-234880989   -234879837   -234879966   -232295424
1644167167   -3214848      1090581031   1962942495
572518958    -803143692   1314803317
```

Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such
problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm--to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?" and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development
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The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large
program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field—you can only stand on the shoulders of the other people *in your own company*.

The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.

It Does Not Matter How Sharing Is Restricted

It has been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

Software Should be Free

I have shown how ownership of a program—the power to restrict changing or copying it—is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.
Vaclav Havel has advised us to "Work for something because it is
good, not just because it stands a chance to succeed." A business
making proprietary software stands a chance of success in its own narrow
terms, but it is not what is good for society.

Why People Will Develop Software
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If we eliminate intellectual property as a means of encouraging
people to develop software, at first less software will be developed,
but that software will be more useful. It is not clear whether the
overall delivered user satisfaction will be less; but if it is, or if
we wish to increase it anyway, there are other ways to encourage
development, just as there are ways besides toll booths to raise money
for streets. Before I talk about how that can be done, first I want to
question how much artificial encouragement is truly necessary.

Programming is Fun
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There are some lines of work that few will enter except for money;
road construction, for example. There are other fields of study and
art in which there is little chance to become rich, which people enter
for their fascination or their perceived value to society. Examples
include mathematical logic, classical music, and archaeology; and
political organizing among working people. People compete, more sadly
than bitterly, for the few funded positions available, none of which is
funded very well. They may even pay for the chance to work in the
field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the
possibility of getting rich. When one worker gets rich, others demand
the same opportunity. Soon all may demand large sums of money for doing
what they used to do for pleasure. When another couple of years go by,
everyone connected with the field will deride the idea that work would
be done in the field without large financial returns. They will advise
social planners to ensure that these returns are possible, prescribing
special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past
decade. Fifteen years ago, there were articles on "computer
addiction": users were "onlining" and had hundred-dollar-a-week habits.
It was generally understood that people frequently loved programming
enough to break up their marriages. Today, it is generally understood
that no one would program except for a high rate of pay. People have
forgotten what they knew fifteen years ago.
When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.

Funding Free Software
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Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortiums shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful,
growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry—an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that "free software" refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?

There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.
I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support developers without coercion, just as they have learned to support public radio and television stations.

What Is Software Productivity?

If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not
harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards--competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves--when "Let the best person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society's resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"

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In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with
Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

The Question of Premises

I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves--regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.
Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in `Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors."

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
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We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

---------- Footnotes ----------

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax
on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.

1.448 python-kazoo 2.2.1 1.el7ost
1.448.1 Available under license:

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1.449 pelletier-go-toml v1.4.0 728039f

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1.450 sensible-utils 0.0.9+deb9u1

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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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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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That's all there is to it!

1.454 python-amqplib 1.0.2 11.el7ost

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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.

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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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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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1.459 jmespath 0.9.3
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1.467 radvd 2.17 3.el7

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1.468 python-iso8601 0.1.11 1.el7ost
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1.469 shadow 4.4-4.1.debian

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1.489 deltarpm 3.6 3.el7

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1.491 perl-dbi 1.627 4.el7
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From cd8fcbbf402e1d70c9f325f8b0fcd99e02cf14be Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=20P=C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Mon, 18 Nov 2013 12:52:09 +0100
Subject: [PATCH] Security notice for Proxy
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit
PlRPC is not secure due to Storable. Warn Proxy users about it.
Signed-off-by: Petr Psa <ppisar@redhat.com>
--lib/DBD/Proxy.pm
| 7 +++++++
lib/DBI/ProxyServer.pm | 7 +++++++
2 files changed, 14 insertions(+)
diff --git a/lib/DBD/Proxy.pm b/lib/DBD/Proxy.pm
index 287b2dc..5948255 100644
--- a/lib/DBD/Proxy.pm
+++ b/lib/DBD/Proxy.pm
@@ -974,6 +974,13 @@ The workaround is storing the modified local copy back to the server:
$dbh->{"csv_tables"} = $tables;

+=head1 SECURITY WARNING
+
+L<RPC::PlClient> used underneath is not secure due to serializing and
+deserializing data with L<Storable> module. Use the proxy driver only in
+trusted environment.

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diff --git a/lib/DBI/ProxyServer.pm b/lib/DBI/ProxyServer.pm
index 68ad4af..78a0d78 100644
--- a/lib/DBI/ProxyServer.pm
+++ b/lib/DBI/ProxyServer.pm
@@ -867,6 +867,13 @@ Don't try to put parameters into the sql-query like this:
=back

SECURITY WARNING

+L<RPC::PlServer> used underneath is not secure due to serializing and
+deserializing data with L<Storable> module. Use the proxy driver only in
+trusted environment.
+
+
=AUTHOR

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1.8.3.1

1.492 flask 1.0.2
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b) Use a suitable shared library mechanism for linking with the
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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overrides:
ceph:
  conf:
    client:
      fuse default permissions: false
      client acl type: posix_acl

tasks:
  - workunit:
    clients:
      all:
        - fs/misc/acl.sh
        - fs/misc/chmod.sh

[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
/*
 *
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
  const fs::path& root;
const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f){}
private:
split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();
    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
        "
        "<html>
        "
        "<head>
        "
        "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</title>
" << "</head>
" << "</body>
" << "<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</H1>
" << "<H2>Contents</h2>
" << "<pre><a href="#input">Input Information</a>

if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
; os << "<a href="#details">Licence Details</a>
; os << "<a href="#files">Files with no recognised license</a>
; os << "<a href="#authors">Files with no recognised copyright holder</a>
; if(!m_bsl_summary_mode)
    os << "Moving to the Boost Software License...
" << "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" << "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" << "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
" << "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
; os << "<a href="#copyright">Copyright Holder Information</a>
; os << "<a href="#depend">File Dependency Information</a>
; //
// input Information:
//

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Open Source Used in Cisco VIM 3.4.37091

os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
os << "<P>The following files were scanned for boost dependencies:<BR>");else
os << "<P>The following Boost modules were checked:<BR>");

std::list<std::string>::const_iterator si = m_module_list.begin();std::list<std::string>::const_iterator sj = m_module_list.end();while(si != sj)
{
os << *si << "<BR>";
++si;
}
o <"</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");static const boost::regex version_regex("^\[[[:blank:]]*#\[[[:blank:]]*define\[[[:blank:]]*BOOST_VERSION\[[[:blank:]]*+(\d+)\]$+\]");boost::cmatch what;if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";)

//
// output each license:
//
i = m_license_data.begin();j = m_license_data.end();if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>
while(i != j)
{
    // title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size()
    << " authors and " << i->second.files.size()
    << " files <a href="#" << make_link_target(licenses.first[i->first].license_name) << ">
    (see details)</a>";
os << "</P><BLOCKQUOTE>\n";
++i;
}

// and now the details:

i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os <<
        "<H3><A name="" << make_link_target(licenses.first[i->first].license_name)
        ""></A>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:"
        std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>\n";
    ++x;
}
os << "</P><BLOCKQUOTE>\n";
    // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:"
        std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
os << "</P></BLOCKQUOTE>\n"; 
} 
else 
{ 
    os << "This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n"; 
    os << "This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n"; 
} 
++license_index; 
++i; 
} 
// Output list of files not found to be under license control: 
// 
if(!m_bsl_summary_mode) 
{ 
    std::set<fs::path, path_less>::const_iterator i2, j2; 
i2 = m_unknown_licenses.begin(); 
j2 = m_unknown_licenses.end(); 
while(i2 != j2) 
{ 
    os << split_path(m_boost_path, *i2) << "<br>\n"; 
    ++i2; 
} 
    os << "</p></BLOCKQUOTE>"; 
// Output list of files with no found copyright holder: 
// 
if(!m_bsl_summary_mode) 
{ 
    std::set<fs::path, path_less>::const_iterator i2, j2; 
i2 = m_unknown_authors.begin(); 
j2 = m_unknown_authors.end(); 
while(i2 != j2) 
{ 
    os << split_path(m_boost_path, *i2) << "<br>\n"; 
    ++i2; 
} 
    os << "</p></BLOCKQUOTE>"; 
if(!m_bsl_summary_mode) 
{ 
    // Output list of files that have been moved over to the Boost Software License, along with enough information for human verification. 
    // 
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>\n"
The following `m_converted_to_bsl` size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

```cpp
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
            << "</tt}><br>
        <table border="1">
            <tr>
                <td><pre>" << i->second.first << "</pre></td>
                <td><pre>" << i->second.second << "</pre></td>
            </tr>
        </table>
        ++i;
        ++file_num;
    }
}
```

// Output list of files that could be moved over to the Boost Software License

```cpp
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
";
```

```cpp
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br">
    ++i2;
}
```

```cpp
os << "</p></BLOCKQUOTE>";
```

// Output list of files that can not be moved over to the Boost Software License

```cpp
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
";
```

```cpp
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br">
    ++i2;
}
```

```cpp
os << "</p></BLOCKQUOTE>";
```
// Output list of authors that we need permission for to move to the BSL.
// Authors we need for the BSL.

"<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>

"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "\n"));

os << "</p"></BLOCKQUOTE>";

// output a table of copyright information:

os << "<H2><a name="copyright"></a>Copyright Holder Information</h2><table border="1">

std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>

    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}

os << "</table>\n";

// output file dependency information:

os << "<H2><a name="depend"></a>File Dependency Information</h2>

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
}
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
} while(fi != efi)
{
os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
while(true)
{
os << " -> ";
if(fs::exists(m_boost_path / dep->second))
os << split_path(m_boost_path, dep->second);
else if(fs::exists(dep->second))
os << split_path(fs::path(), dep->second);
else
os << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
{
os << " <I>(Circular dependency!)</I>";
break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
break;
}
os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

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//
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {

            using boost::move_detail::integral_constant;
            using boost::move_detail::true_type;
            using boost::move_detail::false_type;

        } // namespace container_detail
    } // namespace container
} // namespace boost

namespace boost {
    namespace container {
        namespace container_detail {

            using boost::move_detail::integral_constant;
            using boost::move_detail::true_type;
            using boost::move_detail::false_type;

        } // namespace container_detail
    } // namespace container
} // namespace boost

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using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    {  return x.first;   }

    template<class T>
    type& operator()(T& x)
    {  return const_cast<type&>(x.first);   }
};

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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/////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <cstddef>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {
                static const bool value = C_; 
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_; 
            typedef true_  true_type;

        } // namespace ipcdetail
    } // namespace interprocess
} // namespace boost

#endif // BOOST_INTERPROCESS_DETAIL_MPL_HPP
typedef false_false_type;
typedef char yes_type;
struct no_type
{
    char padding[8];
};
template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {}

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}

template<
   bool C
   , typename T1
   , typename T2
>
struct if_c
{
    typedef T1 type;
};
template<
   typename T1
   , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};
template<
   typename T1
   , typename T2
   , typename T3
>
struct if_
typedef typename if_c<0 != T1::value, T2, T3>::type type;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template::<
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^(?!prefix>W*)((c?))?(c)?copyright\s*\((c)\)?\s*\d\d\d\d\s*\((c)\)?\s*\d\d\d\d\s*\((c)\)?\s*\d\d\d\d\s*\((c)\)\s*', line, re.IGNORECASE)
            if m:
d = m.groupdict()
prefix.add(d['prefix'])
lines.append(i)
names.append(d['name'].strip())
if len(prefix) != 1:
    print 'Not found:', filename
    return
prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

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Benoit Sigoure <tsuna@google.com>
Bogdan Piloca <boo@google.com>
Chandler Carruth <chandrerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@gmail.com>
Jim Keller <jimkeller@gmail.com>
Joe Walnes <joe@true mesh.com>
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = mpl::vector((1..input_size).to_a.map [ [n] "t<#{n}>" ]) %>

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main()  {
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

Ajay Joshi <aj@google.com>
Balz Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
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Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <ru@pentad.com>
Sean McAfee <seefacm@gmail.com>
Sigurur Sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>
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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

  template <typename State, typename X>
  struct f { using type = X; };
struct state { };

template <int i>
struct t { };

using vector = mpl_vector((1..input_size).to_a.map { [n] "t<#{n}>"} ));

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() {

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// ...........................................................................

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif
#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost { 
namespace intrusive { 
namespace detail { 

using boost::move_detail::is_same; 
using boost::move_detail::add_const; 
using boost::move_detail::remove_const; 
using boost::move_detail::remove_cv; 
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)   
  template <typename T>   
  struct boost_intrusive_has_type_##TNAME   
  {   
    template <typename X>   
    static char test(int, typename X::TNAME*);   
    
    template <typename X>   
    static int test(...);   
    
    static const bool value = (1 == sizeof(test<T>(0, 0)));   
  };   
  
template <typename T, typename DefaultType>   
struct boost_intrusive_default_type_##TNAME   
{   
  struct DefaultWrap { typedef DefaultType TNAME; };   
  
  typedef typename 
    ::boost::intrusive::detail::if_c
      < boost_intrusive_has_type_##TNAME<T>::value 
        , T, DefaultWrap::type::TNAME type;
    
};   
//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   
  typename INSTANTIATION_NS_PREFIX                                                       
  boost_intrusive_default_type_##TNAME< T, TIMPL >::type                            
//
#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)   
  INSTANTIATION_NS_PREFIX 
  boost_intrusive_has_type_##TNAME<T>::value                                     
//
#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)   
  template <typename T, typename DefaultType>   
  struct boost_intrusive_eval_default_type_##TNAME   
  {   
    template <typename X>   
    static char test(int, typename X::TNAME*);   
    
    template <typename X>   
    static int test(...);   
    
  };
struct DefaultWrap
{ typedef typename DefaultType::type TNAME; }

static const bool value = (1 == sizeof(test<T>(0, 0)));

typedef typename
::boost::intrusive::detail::eval_if_c
< value
, ::boost::intrusive::detail::identity<T>
, ::boost::intrusive::detail::identity<DefaultWrap>
>::type::TNAME type;

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) 
  typename INSTANTIATION_NS_PREFIX
  boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) 
  template <class T>
  struct TRAITS_PREFIX##_bool
  {
    template<bool Add> struct two_or_three {yes_type _[2 + Add];};
    template <class U> static yes_type test(...);
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
    static const std::size_t value = sizeof(test<T>(0));
  };

  template <class T>
  struct TRAITS_PREFIX##_bool_is_true
  {
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;
  };

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
  template <typename U, typename Signature> 
  class TRAITS_NAME 
  {
  private:
    template<Signature> struct helper;
    template<typename T> 
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); 
  };

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template<typename T> static ::boost::intrusive::detail::no_type test(...); 

public: 

static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); 
}; 

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) 
template<typename Type> 
struct TRAITS_NAME 
{
  
  struct BaseMixin 
  { 
    
    void FUNC_NAME(); 
  }

  struct Base : public Type, public BaseMixin { Base(); }; 

  template<typename T, T t> class Helper{ }; 

  template<typename U> 
  static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); 
  static ::boost::intrusive::detail::yes_type test(...); 

  static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); 
}; 

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLEDIGNORE_SIGNATURE(TRAITS_NAME, 
FUNC_NAME) 
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) 


#include <boost/intrusive/detail/config_end.hpp>
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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overrides:
  ceph:
    conf:
      client:
        fuse set user groups: true
        fuse default permissions: false
        client acl type: posix_acl
  tasks:
    - workunit:
      clients:
        all:
          - suites/pjd.sh

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF
  xmlns:_3="http://spdx.org/rdf/terms#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
>
  <rdf:Description rdf:nodeID="NukVOfZA85">
    <rdf:type rdf:resource="http://spdx.org/rdf/terms#File"/>
    <_3:licenseInfoInFile rdf:resource="http://spdx.org/rdf/terms#none"/>
    <_3:licenseConcluded rdf:resource="http://spdx.org/licenses/MIT"/>
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    <_3:fileType rdf:resource="http://spdx.org/rdf/terms#fileType_source"/>
    <_3:fileName>./examples/eventloop/c_eventloop.js</_3:fileName>
    <_3:checksum rdf:nodeID="NukVOfZA86"/>
  </rdf:Description>

  <rdf:Description rdf:nodeID="NukVOfZA159">
    <rdf:type rdf:resource="http://spdx.org/rdf/terms#File"/>
    <_3:licenseInfoInFile rdf:resource="http://spdx.org/rdf/terms#none"/>
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    <_3:fileName>/examples/debug-trans-dvalue/duk_trans_dvalue.c</_3:fileName>
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  <_3:originator>Organization: duktape.org</_3:originator>
  <_3:versionInfo>1.3.0</_3:versionInfo>
  <_3:packageVerificationCode rdf:nodeID="NukVOfZA5"/>
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  <_3:summary>Duktape Ecmascript interpreter</_3:summary>
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  <_3:licenseComments>Duktape is copyrighted by its authors and licensed under the MIT license. MurmurHash2 is used internally, it is also under the MIT license. Duktape module loader is based on the CommonJS module loading specification (without sharing any code), CommonJS is under the MIT license.</_3:licenseComments>
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</rdf:RDF>
1.505 requests-aws4auth 0.9

1.505.1 Available under license:

requests-aws4auth includes the six library.

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1.506 perl 5.16.3 294.el7_6

1.506.1 Available under license:

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#---------------------------------------------------------------#
{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'perl'
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'perl',
        "license 'perl' is valid"
    );

    my $meta = $mb->get_metadata( fatal => 0 );

    is( $meta->{license} => 'perl',
        "META license will be 'perl'"
    );

    is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
        "META license URL is correct"
    );

}

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{my $dist = DistGen-&gt;new(
   name =&gt; 'Simple::Name',
   version =&gt; '0.01',
   license =&gt; 'VaporWare'
);

$dist-&gt;regen;
$dist-&gt;chdir_in;

my $mb = $dist-&gt;new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb-&gt;license, 'VaporWare',
   "license 'VaporWare' is valid"
);

my $meta = $mb-&gt;get_metadata( fatal =&gt; 0 );
is( $meta-&gt;{license} =&gt; 'unrestricted', "META license will be 'unrestricted'" );
is( $meta-&gt;{resources}{[license], "http://example.com/vaporware/",
   "META license URL is correct"
);
}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3
---

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- hv.c
+++ b/hv.c
@@ -6 +6 @@
 hv.c       | 6 ++++++
 sv.c       | 7 +++++--
 t/op/svleak.t | 22 +++++++++++++++++++++
 3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/sv.c b/sv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);

+ENTER;
+SAVEFREESV(hv);
+
 while (hv_max && hv_max + 1 >= hv_fill * 2)
   hv_max = hv_max / 2;
 HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 }
 HvRITER_set(ohv, riter);
 HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
 }

 hv_magic(hv, NULL, PERL_MAGIC_hints);
 return hv;

diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
 Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
 return NULL;
+
+    /* Do this here, otherwise we leak the new SV if this croaks. */
+    SvGETMAGIC(old);
+    new_SV(sv);
+    /* SV_GMAGIC is the default for sv_setv()
+     SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+     with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
-    sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+    sv_setsv_flags(sv, old, SV_NOSTEAL);
 return sv;
 }

 diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
 or skip_all("XS::APItest not available");
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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
builtRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
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1.510 python-setuptools 40.6.3

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1.511 basesystem 10.0 7.el7

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Summary: The skeleton package which defines a simple Red Hat Enterprise Linux system
Name: basesystem
Version: 10.0
Release: 7%{?dist}
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Group: System Environment/Base
Requires(pre): setup filesystem
BuildRoot: %(_mktemp -ud %(_tmppath)/%{name}-%{version}-%{release}-XXXXXX)
BuildArch: noarch

description

Basesystem defines the components of a basic Red Hat Enterprise Linux system (for example, the package installation order to use during bootstrapping). Basesystem should be in every installation of a system, and it should never be removed.
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gunicorn.logging_config
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util/unlink.py

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backport frop python3 Lib/test/support.py

gunicorn/selectors.py

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1.523 net-tools 2.0 0.24.20131004git.el7

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/*
 * Dibbler - a portable DHCPv6
 *
 * authors: Tomasz Mrugalski <thomson@klub.com.pl>
 * changes: Paul Schauer <p.schauer(at)comcast(dot)net>
 *
 * released under GNU GPL v2 only licence
 *
 * $Id: daemon.h,v 1.3 2009-04-19 21:37:44 thomson Exp $
 *
 */
#ifndef DAEMON_H
#define DAEMON_H

#ifndef SIGTERM
#define SIGTERM 15
#endif

#ifndef SIGINT
#define SIGINT 2
#endif

int start(const char * pidfile, const char * workdir);
int stop(const char * pidfile);

int init(const char * pidfile, const char * workdir);
int getPID(char * pidfile, const char * workdir);
int getServerPID();
int getClientPID();
int getRelayPID();
int die(const char * pidfile);

void logStart(const char * note, const char * logname, const char * logfile);
void logEnd();

#endif

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```
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libLowLevel_a_CFLAGS = -std=c99
libLowLevel_a_CPPFLAGS = -I$(top_srcdir)/Misc
libLowLevel_a_SOURCES = daemon.cpp daemon.h lowlevel-bsd.c lowlevel-options-bsd.c malloc.h dibbler-client.cpp dibbler-server.cpp dibbler-relay.cpp
```

1.525 libselinux 2.6-3.debian

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1.526 libcap-ng 0.7.7-3.debian
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1.527 openssl 1.1.0l-1~deb9u1.debian

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1.528 urllib3 1.24.1

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.
* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture
* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ```HTTPResponse.stream()```
  * Bugfix for ```ConnectionPool.urlopen(release_conn=False)```
  * Creation of ```HTTPConnectionPool.ResponseCls```

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance
* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@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 vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `"long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

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

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogoeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Gansauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
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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.

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
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.)

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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david@megginson.com
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#
from pykickstart.base import KickstartCommand
from pykickstart.errors import KickstartValueError, formatErrorMsg
from pykickstart.options import KSOptionParser

import gettext
_=lambda x:gettext.ldgettext("pykickstart",x)

class F20_Eula(KickstartCommand):
    """The 'eula' kickstart command"""

    def __init__(self, *args, **kwargs):
        KickstartCommand.__init__(self, *args, **kwargs)
        self.op = self._getParser()
self.agreed = kwargs.get("agreed", False)

def __str__(self):
    retval = KickstartCommand.__str__(self)

    if self.agreed:
        retval += "# License agreement\n"
        retval += "eula %s\n" % self._getArgsAsStr()

    return retval

def _getArgsAsStr(self):
    if self.agreed:
        return "--agreed"
    else:
        return ""

def _getParser(self):
    op = KSOptionParser()
    # people would struggle remembering the exact word
    op.add_option("--agreed", "--agree", "--accepted", "--accept",
                   dest="agreed", action="store_true", default=False)

    return op

def parse(self, args):
    (opts, extra) = self.op.parse_args(args=args, lineno=self.lineno)
    self._setToSelf(self.op, opts)

    if len(extra) != 0:
        raise KickstartValueError(formatErrorMsg(self.lineno, msg=_("Kickstart command %s does not take any arguments") % "eula"))

    if not self.agreed:
        raise KickstartValueError(formatErrorMsg(self.lineno, msg=_("Kickstart command eula expects the --agreed option")))

    return self

#
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#
import unittest
from tests.baseclass import *
from pykickstart.errors import *
from pykickstart.commands.eula import *

class F20_TestCase(CommandTest):
    command = "eula"

def runTest(self):
    # pass
    self.assert_parse("eula --agreed", "eula --agreed\n")
    self.assert_parse("eula --agree", "eula --agreed\n")
    self.assert_parse("eula --accepted", "eula --agreed\n")
    self.assert_parse("eula --accept", "eula --agreed\n")

    # fail
    self.assert_parse_error("eula", KickstartValueError)
    self.assert_parse_error("eula arg1", KickstartValueError)

if __name__ == "__main__":
    unittest.main()

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1.538 python-pint 0.6 5.1.el7ost

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1.540 eapache-queue v1.1.0 44cc805

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1.541 traceroute 2.0.22 2.el7

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Version 3, 29 June 2007

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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 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 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").

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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.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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c) If distribution of the work is made by offering access to copy
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Public License instead of this License.
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes
are: update paths in sysdeps/mach/hurd/Implies and
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files,
with the removal of syscalls that were in
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory
by .c files there.

Tested x86_64. The installed shared libraries are identical before
and after the patch except for libc.so where the move of wait3.c
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but
the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from
  sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
  * sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
  * sysdeps/unix/sysv/linux/wait3.c: Update directory of included
file.
  * sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
  * sysdeps/unix/bsd/Makefile: ... here.
  * sysdeps/unix/bsd/bsd4.4 V egregious: Move to ...
  * sysdeps/unix/bsd/versions: ... here.
  * sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
  * sysdeps/unix/bsd/bits/sockaddr.h: ... here.
  * sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
  * sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
  * sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
  * sysdeps/unix/bsd/sigblock.c: ... here.
  * sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
  * sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/signrпо.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234e1f1f1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
    gnu
    # The Hurd provides a rough superset of the functionality of 4.4 BSD.
    -unix/bsd/bsd4.4
+unix/bsd

diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/socketaddr.h b/sysdeps/unix/bsd/bits/socketaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/socketaddr.h
rename to sysdeps/unix/bsd/bits/socketaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d35465424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
## File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke

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- setlogin
- sigaltstack
- sigaltstack
- wait4
- wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c

diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File name Caller Syscall name # args Strong name Weak names

+chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock-flock2__flockflock
getdents-getdirentsgetdirentsgetdirentsi
getdsz-getdsizesgetdsizesgetdsizes
getpagesize-getpagesizegetpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblockorig
+revoke-revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstackorig
+sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmaskorig
+sigstack-sigstack2sigstack
+sigvec-sigvec3__sigvectorsigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcgetattr.cename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
#include <sysdeps/unix/bsd4.4/wait3.c>
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1.550 py-cparser 2.19

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1.552 dnsmasq-utils 2.76 10.el7_7.1

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Alexis Hunt <lexer@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Burcu Dogan <jbd@google.com>
Dave Day <djd@golang.org>
David Sansome <me@davidsansome.com>
David Symonds <dsymonds@golang.org>
Filippo Valsorda <hi@filippo.io>
Glenn Lewis <gmlewis@google.com>
Ingo Oeser <nightlyone@googlemail.com>
James Hall <james.hall@shopify.com>
Johan Euphrosine <proppy@google.com>
Jonathan Amsterdam <jba@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mario Castro <mariocaster@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Omar Jarjur <ojarjur@google.com>
Pawe Knap <pawelknap88@gmail.com>
Pter Szilgyi <peterke@gmail.com>
Sarah Adams <shadams@google.com>
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#
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#
Andreas Jaekle <andreas@jaekle.net>
Dmitri Shuralyov <shurcooL@gmail.com>
Ethan Mosbaugh <emosbaugh@gmail.com>
Soheil Hassas Yeganeh <soheil.h.y@gmail.com>
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Alain Vongsouvanhalain <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@goglers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
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Kunpei Sakai <namusyaka@gmail.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
Scott Van Woudenberg <scottvw@google.com>
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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utils.cache.cached_property extracted from Celery

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utils.FormattableString

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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* http://docs.openstack.org/infra/manual/developers.html
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Project Hosting Details
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Bug tracker
http://launchpad.net/heat-dashboard

Code Hosting
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Code Review
https://review.openstack.org/#/q/status:open+project:openstack/heat-dashboard,n,z

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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.

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//
//
////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP)
#  define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if defined(BOOST_CONFIG_HPP)
  # include <boost/config.hpp>
#endif

#endif

#pragma once

1.564 ceph-base 12.2.8 128.el7cp

1.564.1 Available under license:

The MIT License (MIT)
template <class FirstType>
struct select1st
{
  typedef FirstType type;
template<class T>
const type& operator()(const T& x) const
{  return x.first;  }

template<class T>
type& operator()(T& x)
{  return const_cast<type&>(x.first);  }

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t [ i ];

using vector = mpl_vector((1..input_size).to_a.map { [n] "t<#{n}>" }) %>

int main() { }

CommonJS specification snapshots are included in the references/
directory. CommonJS is under the MIT license: http://www.commonjs.org/.
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 * /

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << "">"" << p.file.string() << ""</a>"";
    return os;
}
std::string make_link_target(const std::string& s)  
// convert an arbitrary string into something suitable  
// for an <a> name:  
std::string result;  
for(unsigned i = 0; i < s.size(); ++i)  
{  
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));  
}  
return result;  

void bcp_implementation::output_license_info()  
{  
    std::pair<const license_info*, int> licenses = get_licenses();  
    
    std::map<int, license_data>::const_iterator i, j;  
    i = m_license_data.begin();  
    j = m_license_data.end();  
    std::ofstream os(m_dest_path.string().c_str());  
    if(!os)  
    {  
        std::string msg("Error opening ");  
        msg += m_dest_path.string();  
        msg += " for output.");  
        std::runtime_error e(msg);  
        boost::throw_exception(e);  
    }  
    os <<  
        "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n"  
        "<html>\n"  
        "<head>\n"  
        "<title>Boost Licence Dependency Information";  
    if(m_module_list.size() == 1)  
    {  
        os << " for " << *(m_module_list.begin());  
    }  
    os <<  
        "</title>\n"  
        "</head>\n"  
        "</body>\n"  
        "<H1>Boost Licence Dependency Information";  
    if(m_module_list.size() == 1)  
    {  
        os << " for " << *(m_module_list.begin());  
    }  
}
Open Source Used in Cisco VIM 3.4.37832

<h1></h1>
<h2>Contents</h2>
<pre><a href="#input">Input Information</a></pre>

if(!m_bsl_summary_mode)
os << "<a href="#summary">Licence Summary</a>"

os << "<a href="#details">Licence Details</a>

while(i != j)
{
    // title:
os << "<A href=""#"" make_link_target(licenses.first[i->first],license_name) << ">
    << 
    "" << licenses.first[i->first].license_name << ""</a>
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>"

os << "<a href="#authors">Files with no recognised copyright holder</a>"

if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
    <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
    <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
    <a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
    <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
    <a href="#copyright">Copyright Holder Information</a>
}

os << "<a href="#depend">File Dependency Information</a>"

"</pre>

// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>

if(m_scan_mode)
os << "<P>The following files were scanned for boost dependencies:<BR>
else
os << "<P>The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
os << *si << "<BR>
    ++si;
}
The Boost path was: `<code>` << m_boost_path.string() << `</code>`;

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^\[[:blank:\]]*\#define\[[:blank:\]+BOOST_VERSION\[[:blank:\]+(\d+)\];
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="/#" >> make_link_target(licenses.first[i->first].license_name) << "> (see details)\</a>";
        os << "</P>\</BLOCKQUOTE>\n";
        ++i;
    }
    //
    // and now the details:
    //
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;

while(i != j)
{
    // title:
    os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ">" << licenses.first[i->first].license_name << "</H3>";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:";
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
        {
            os << *x << "<BR>";
            ++x;
        }
        os << "</P></BLOCKQUOTE>";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << " files:";
        std::set<fs::path, path_less>::const_iterator m, n;
        m = i->second.files.begin();
        n = i->second.files.end();
        while(m != n)
        {
            os << split_path(m_boost_path, *m) << "<BR>";
            ++m;
        }
        os << "</P></BLOCKQUOTE>";
    }
    else
    {
        os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).";
        os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).";
    }
    ++license_index;
    ++i;
}

// Output list of files not found to be under license control:
//
Files With No Recognisable Licence

The following files had no recognisable license information:

```
std::set<fs::path, path_less>::const_iterator i, j;
i = m_unknown_licenses.begin();
j = m_unknown_licenses.end();
while(i != j)
{
    os << split_path(m_boost_path, *i) << "<br>
    ++i;
}
```

Files With No Recognisable Copyright Holder

The following files had no recognisable copyright holder:

```
std::set<fs::path, path_less>::const_iterator i, j;
i = m_unknown_authors.begin();
j = m_unknown_authors.end();
while(i != j)
{
    os << split_path(m_boost_path, *i) << "<br>
    ++i;
}
```

Files that can be automatically converted to the Boost Software License

The following files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

```
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(), ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first) << "<tt><br>
        <tt>" << i->second << '<pre>
```

Open Source Used In Cisco VIM 3.4.37835
/*

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*/

// Output list of files that could be moved over to the Boost Software License
//
//
// Output list of files that could be moved over to the Boost Software License
//
//
// Output list of files that can not be moved over to the Boost Software License
//
//
// Output list of authors that we need permission for to move to the BSL
//
//
// Output a table of copyright information:
//

"<h2>a name="to-bsl"</a>Files that could be converted to the Boost Software License</h2>
"<P>The following "<< m_can_migrate_to_bsl.size()<< " files could be manually converted to the Boost
Software License, but have not yet been:"<< BLOCKQUOTE><P>";

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  ++i2;
}

os << "</p></BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License
//
//
// Output list of authors that we need permission for to move to the Boost Software License
//
//
// Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
  std::ostream_iterator<std::string>(os, "<br>
"));

os << "</p></BLOCKQUOTE>";

//
// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">

std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>"

    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td><tr>\n"
    ++ad;
}

os << "</table>\n";

// output file dependency information:

os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
fi = bad_paths.begin();
efi = bad_paths.end();

For brevity, only files not under the BSL are shown.

```cpp
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                {
                    os << " <I>(Circular dependency!)</I>";
                    break; // circular dependency!!!
                }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
```

os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n"

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

Name: ceph
Maintainer: Sage Weil <sage@newdream.net>
Source: http://ceph.com/

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Copyright: (c) 2004-2010 by Sage Weil <sage@newdream.net>
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Files: doc/*
Copyright: (c) 2010-2012 New Dream Network and contributors
License: Creative Commons Attribution Share Alike 3.0 (CC-BY-SA-3.0)

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License: GPL3

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License: LGPL2 or later

Files: src/os/btrfs_ioctl.h
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License: GPL2 (see COPYING-GPL2)

Files: src/include/ceph_hash.cc
Copyright: None
License: Public domain

Files: src/common/bloom_filter.hpp
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Files: src/common/crc32c_intel*:
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Files: qa/workunits/erasure-code/jquery.{flot.categories,flot}.js
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Files: src/include/timegm.h
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overrides:
  ceph:
  conf:
  client:
    fuse set user groups: true
    fuse default permissions: false
    client acl type: posix_acl
  tasks:
    - workunit:
      clients:
        all:
        - suites/pjd.sh
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>
;  
using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }

# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
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Pasi Valminen <pasi.valminen@gmail.com>
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;

namespace boost { 
namespace intrusive { 
namespace detail { 

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;

}}}
}}

}}}
template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{ }
static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)   
 template <typename T>   
 struct boost_intrusive_has_type_## TNAME   
 {   
  template <typename X>   
   static char test(int, typename X::TNAME*);   
  
  template <typename X>   
   static int test(...);   
  
  static const bool value = (1 == sizeof(test<T>(0, 0)));   
 };   

template <typename T, typename DefaultType>   
 struct boost_intrusive_default_type_## TNAME   
 {   
  struct DefaultWrap { typedef DefaultType TNAME; };   
  
  typedef typename 
    ::boost::intrusive::detail::if_c   
    < boost_intrusive_has_type_## TNAME<T>::value   
    , T, DefaultWrap::type::TNAME type;   
  };   

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)   

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)   
 template <typename T, typename DefaultType>   
 struct boost_intrusive_eval_default_type_## TNAME   
 {   
  template <typename X>   
   static char test(int, typename X::TNAME*);   
  
  template <typename X>   
   static int test(...);   
  
  static const bool value = (1 == sizeof(test<T>(0, 0)));   

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static int test(...);

struct DefaultWrap
{
    typedef typename DefaultType::type TNAME;
};

static const bool value = (1 == sizeof(test<T>(0, 0)));

typedef typename
::boost::intrusive::detail::eval_if_c
< value
 , ::boost::intrusive::detail::identity<T>
 , ::boost::intrusive::detail::identity<DefaultWrap>
>::type::TNAME type;

//
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
    boost_intrusive_eval_default_type_##TNAME< T, TIMPL >::type \
//
#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) \
    template <class T>\n    struct TRAITS_PREFIX##_bool\n    {\n    template<bool Add>\n        struct two_or_three {yes_type _[2 + Add];};\n    template <class U> static yes_type test(...);\n    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\n    static const std::size_t value = sizeof(test<T>(0));\n    }\n\n    template <class T>\n    struct TRAITS_PREFIX##_bool_is_true\n    {\n    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\n    }\n    //
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    template <typename U, typename Signature> \n    class TRAITS_NAME \n    {\n    private:\n        template<Signature> struct helper;\n    }\n

template<typename T> \\static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \\template<typename T> static ::boost::intrusive::detail::no_type test(...); \\public: \\static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \\}; \\
#elif

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \\
template <typename Type> \\
struct TRAITS_NAME \\
{ \\
  struct BaseMixin \\
  { \\
    void FUNC_NAME(); \\
  }; \\
  struct Base : public Type, public BaseMixin { Base(); }; \\
  template<typename T, T t> class Helper{}; \\
  template <typename U> \\
  static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \\
  static ::boost::intrusive::detail::yes_type test(...); \\
  static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \\
}; \\
#endif
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \\
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)


//namespace detail
//namespace intrusive
//namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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        fuse default permissions: false
        client acl type: posix_acl
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# This file contains a list of people who've made non-trivial contribution to the Google C++ Mocking Framework project. People who commit code to the project are encouraged to add their names here. Please keep the list sorted by first names.

Benoit Sigoure <tsuna@google.com>
Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kostya Serebryany <kcc@google.com>
Lev Makhlis
Manuel Klimek <klimek@google.com>
Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbland@google.com>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@google.com>
Owen Carlsen <ocarlsen@google.com>
Paneendra Ba <paneendra@google.com>
Paul Menage <menage@google.com>
Piotr Kaminski <piotr@google.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsdal@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@gmail.com>
Wolfgang Klier <wklier@google.com>
Zhan Yong Wan <wan@gmail.com>
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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Some portions are also:
#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state {};

template <int i>
struct t {};

using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %; 

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() {
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//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#endif

#endif

ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#include <boost/config.hpp>
#ifdef BOOST_INTERPROCESS_DETAIL_MPL_HPP

ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
# endif

#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_>
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_; 
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 


struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
, typename T2
, typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
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```python
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%a%09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
```
m = re.match(r'^\W*\(c\)\s*copyright\s*\(c\)\s*\d{4}\s*\d{4}\s*(?P<name>.+?)\s*$', line, re.IGNORECASE)
if m:
    d = m.groupdict()
    prefix.add(d['prefix'])
    lines.append(i)
    names.append(d['name'].strip())
if len(prefix) != 1:
    print 'Not found:', filename
    return
prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

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   This is free software, and you are welcome to redistribute it
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Duktape

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Jerasure - A C/C++ Library for a Variety of Reed-Solomon and RAID-6 Erasure Coding Techniques

Revision 2.0: Galois Field backend now links to GF-Complete
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12 byte2256 characters, Unicode index
13 byte3512 characters, Unicode index
14 byte4256 characters, Unicode level 2 index
14 byte5512 characters, Unicode level 2 index
11 byte8x%d

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0       lelong		0x864ab572	psf2 screen font data
16 byte 12
24 byte 28
32 byte 24

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0       leshort         0x0436-psf screen font data
12 byte 0               256 characters, no index
12 byte 1           512 characters, no index
12 byte2256 characters, Unicode index
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In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~speecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU ``Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.'' - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu
-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Hi. I snagged some of your bash functions from your home directory on the FSF machines (naughty, I know), and I was wondering if you'd let me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in ~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-(

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?
That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

1.583 kubernetes-kube-state-metrics 1.5.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.586 python-websocket-client 0.56.0

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   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   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
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.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
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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/mec_h 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
	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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\[\text{src/lib/gssapi}\] include the following files:

\[\text{lib/gssapi/generic/gssapi_err_generic.c}\]
\[\text{lib/gssapi/mechglue/g_accept_sec_context.c}\]
\[\text{lib/gssapi/mechglue/g_acquire_cred.c}\]
\[\text{lib/gssapi/mechglue/g_canon_name.c}\]
\[\text{lib/gssapi/mechglue/g_compare_name.c}\]
\[\text{lib/gssapi/mechglue/g_context_time.c}\]
\[\text{lib/gssapi/mechglue/g_delete_sec_context.c}\]
\[\text{lib/gssapi/mechglue/g_dsp_name.c}\]
\[\text{lib/gssapi/mechglue/g_dsp_status.c}\]
\[\text{lib/gssapi/mechglue/g_dup_name.c}\]
\[\text{lib/gssapi/mechglue/g_exp_sec_context.c}\]
\[\text{lib/gssapi/mechglue/g_export_name.c}\]
\[\text{lib/gssapi/mechglue/g_glue.c}\]

\[\text{lib/gssapi/mechglue/g sped_ctx_c.c}\]
\[\text{lib/gssapi/mechglue/g spd_cred_c.c}\]
\[\text{lib/gssapi/mechglue/g spd_name_c.c}\]
\[\text{lib/gssapi/mechglue/g spd_status_c.c}\]
\[\text{lib/gssapi/mechglue/g_dup_c.c}\]
\[\text{lib/gssapi/mechglue/g_exp_sec_context_c.c}\]
\[\text{lib/gssapi/mechglue/g_export_name_c.c}\]
\[\text{lib/gssapi/mechglue/g_glue_c.c}\]

\[\text{lib/gssapi/mechglue/g spd_ctx_c.c}\]
\[\text{lib/gssapi/mechglue/g spd_cred_c.c}\]
\[\text{lib/gssapi/mechglue/g spd_name_c.c}\]
\[\text{lib/gssapi/mechglue/g spd_status_c.c}\]
\[\text{lib/gssapi/mechglue/g_dup_c.c}\]
\[\text{lib/gssapi/mechglue/g_exp_sec_context_c.c}\]
\[\text{lib/gssapi/mechglue/g_export_name_c.c}\]
\[\text{lib/gssapi/mechglue/g_glue_c.c}\]

\[\text{lib/gssapi/mechglue/g spd_ctx_c.c}\]
\[\text{lib/gssapi/mechglue/g spd_cred_c.c}\]
\[\text{lib/gssapi/mechglue/g spd_name_c.c}\]
\[\text{lib/gssapi/mechglue/g spd_status_c.c}\]
\[\text{lib/gssapi/mechglue/g_dup_c.c}\]
\[\text{lib/gssapi/mechglue/g_exp_sec_context_c.c}\]
\[\text{lib/gssapi/mechglue/g_export_name_c.c}\]
\[\text{lib/gssapi/mechglue/g_glue_c.c}\]
and the initial implementation of incremental propagation, including the following new or changed files:

```python
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```
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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
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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
        elif line.strip() != '':
            code_seen = True
            ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./'):  
            fname = fname[2:]
        f = open(fname)
        lines = f.readlines()
f.close()
check_file(lines, fname)

1.592 libassuan 2.1.0 3.el7
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   (For example, a function in a library to compute square roots has

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1.593 python-mimeparse 1.6.0

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1.604 python-tempita 0.5.1 6.el7

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1.605 python2-urllib3 1.21.1 1.2.el7ost

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# Contributions to the urllib3 project
## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors
In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>  
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification
* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs
* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <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.

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

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1.606 groff-base 1.22.2 8.el7

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**AUTHOR**

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Peter Schaffter (peter@schaffter.ca)
1-355 Lafontaine Ave
Ottawa (ON) K1L 6X6

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**Source Files**

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- The file `src/libs/snprintf/snprintf.c`, written by Mark Martinec
  `<mark.martinec@ijs.si>.

  Please look into snprintf.c for the copyright message.

  The complete snprintf package together with documentation is available from

  http://www.ijs.si/software/snprintf/.

- The `grn` preprocessor, written by Barry Roitblat `<barry@rentonww.com>` and David Slattengren `<slatteng@Xinet.COM>`. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

  The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

  `src/preproc/grn/gprint.h`
  `src/preproc/grn/hdb.cpp`
  `src/preproc/grn/hgraph.cpp`
  `src/preproc/grn/hpoint.cpp`
  `src/preproc/grn/main.cpp`

- The `gxditview` output device. It is based on X11's `xditview` program and thus has the X license.

  `src/devices/xditview/DESC.in`
  `src/devices/xditview/Dvi.c`
  `src/devices/xditview/Dvi.h`
  `src/devices/xditview/DviP.h`
  `src/devices/xditview/FontMap`
  `src/devices/xditview/GXditview.ad`
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tmac/groff_mdoc.man

. The -me macro set, using the BSD license.
   
   tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meref.me

Hyphenation Patterns
The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at


It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at


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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at


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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex

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The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at


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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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'#$-----------------------BS_STVARS_040_01------------------------#
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
SET @@GLOBAL.license = 1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected

SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'
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gethostname.c: minimal substitute for missing gethostname() function
created 2000-Mar-02 jmk
requires SVR4 uname() and -lc

by Jim Knoble
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--------------------------------------------

Skeleton parser for Yacc-like parsing with Bison,
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cmake-2.4.8/Utilities/cmzlib/zlib.h:
zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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Jean-loup Gailly        Mark Adler

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cmake-2.4.8/Utilities/cmcurl/inet_pton.c,
cmake-2.4.8/Source/CTest/Curl/inet_pton.c:
This is from the BIND 4.9.4 release, modified to compile by itself

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Sources for Time Zone and Daylight Saving Time Data
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The tz database

The public-domain time zone database contains code and data that represent
the history of local time for many representative locations around the globe. It is
updated periodically to reflect changes made by political bodies to time zone
boundaries, UTC offsets, and daylight-saving rules. This database (often called
tz or zoneinfo) is used by several implementations, including the GNU C Library
used in GNU/Linux, FreeBSD, NetBSD, OpenBSD, Cygwin, DJGPP, HP-UX, IRIX, Mac OS
X, OpenVMS, Solaris, Tru64, and UnixWare.

Each location in the database represents a national region where all clocks
keeping local time have agreed since 1970. Locations are identified by continent
or ocean and then by the name of the location, which is typically the largest
city within the region. For example, America/New_York represents most of the US
eastern time zone; America/Phoenix represents most of Arizona, which uses
mountain time without daylight saving time (DST); America/Detroit represents
most of Michigan, which uses eastern time but with different DST rules in 1975;
and other entries represent smaller regions like Starke County, Indiana, which
switched from central to eastern time in 1991 and switched back in 2006. To use
the database on an extended POSIX implementation set the TZ environment variable
to the location's full name, e.g., TZ="America/New_York".

In the tz database's FTP distribution the code is in the file tzcodeC.tar.gz,
where C is the code's version; similarly, the data are in tzdataD.tar.gz, where
D is the data's version. The following shell commands download these files to a
GNU/Linux or similar host; see the downloaded README file for what to do next.

```
wget 'ftp://elsie.nci.nih.gov/pub/tz*.tar.gz'
gzip -dc tzcode*.tar.gz | tar -xf -
gzip -dc tzdata*.tar.gz | tar -xf -
```

The code lets you compile the tz source files into machine-readable binary
files, one for each location. It also lets you read a tz binary file and
interpret time stamps for that location.

The data are by no means authoritative. If you find errors, please send changes
to the time zone mailing list. You can also subscribe to the mailing list,
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# Variable Name: license # Scope: Global # Access Type: Static # Data Type: string # # # # # Creation Date: 2008-02-07 # Author : Sharique Abdullah # # # # # Description:Test Cases of Dynamic System Variable license # that checks the behavior of this variable in the following ways # # * Value Check # # * Scope Check # # # Reference: http://dev.mysql.com/doc/refman/5.1/en/ # server-system-variables.html # # #

--echo '#---------------------BS_STVARS_040_01----------------------#'

--echo ' # Displaying default value #
SELECT COUNT(@@GLOBAL.license);'

--echo 1 Expected
Open Source Used In Cisco VIM 3.4.38594

--echo '##########################################################
# Check if Value can set                                  #
##########################################################'

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '##########################################################
# Check if the value in GLOBAL Table matches value in variable #
##########################################################

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '##########################################################
# Check if accessing variable with and without GLOBAL point to same variable #
##########################################################

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '##########################################################
# Check if license can be accessed with and without @@ sign    #
##########################################################

SELECT @@license = @@GLOBAL.license;
SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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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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Written by:     Zoltan Herczeg
Email local part:   hzmester
Emain domain:     freemail.hu

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End

== MariaDB ==

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The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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1.617 javapackages-tools 3.4.1 11.el7

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1.618 ca-certificates 2019.2.32 76.el7_6
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1.619 python-rfc3986 0.3.1 1.el7ost
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1.620 python2-cliff 2.11.1 1.el7ost

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If you would like to contribute to cliff directly, these instructions should help you get started. Bug reports, and feature requests are all welcome through the `Launchpad project`_.

.. _Launchpad project: https://launchpad.net/python-cliff

Changes to cliff should be submitted for review via the Gerrit tool, following the workflow documented at https://docs.openstack.org/infra/manual/developers.html#development-workflow

Pull requests submitted through GitHub will be ignored.

Bugs should be filed under the `Launchpad project`_.

.. note::

Before contributing new features to cliff core, please consider whether they should be implemented as an extension instead. The architecture is highly pluggable precisely to keep the core small.

Building Documentation

The documentation for cliff is written in reStructuredText and converted to HTML using Sphinx. The build itself is driven by make. You will need the following packages in order to build the docs:

- Sphinx
- docutils

Once all of the tools are installed into a virtualenv using
pip, run `make docs` to generate the HTML version of the documentation:

```
$ make docs
(cd docs && make clean html)
sphinx-build -b html -d build/doctrees source build/html
Running Sphinx v1.1.3
loading pickled environment... done
building [html]: targets for 1 source files that are out of date
updating environment: 1 added, 1 changed, 0 removed
reading sources... [100%] index
looking for now-outdated files... none found
pickling environment... done
done
preparing documents... done
writing output... [100%] index
writing additional files... genindex search
copying static files... done
dumping search index... done
dumping object inventory... done
build succeeded, 2 warnings.

Build finished. The HTML pages are in build/html.

The output version of the documentation ends up in
``./docs/build/html`` inside your sandbox.

Running Tests
==============

The test suite for clif uses tox_, which must be installed separately
(``pip install tox``).

To run the tests under Python 2.7 and 3.3 as well as PyPy, run `tox`
from the top level directory of the git repository.

To run tests under a single version of Python, specify the appropriate
environment when running tox::

```
$ tox -e py27
```

Add new tests by modifying an existing file or creating new script in
the `tests` directory.

.. _tox: http://codespeak.net/tox

.. _developer-templates:
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1.621 yaml v2.2.2 51d6538

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^L

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Mikhail Salosin (AlphaB)
Anton Tolchanov (knyar)
Christopher Batey (chbatey)
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Procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Configurable modular Prometheus exporter for various node metrics.

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SOFTWARE.

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also 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.

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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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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the version number 2.1.]

Preamble

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code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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.

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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
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
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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When a "work that uses the Library" uses material from a header file
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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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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
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version detection and is also made available as an NSE library.
Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/

liblua: Lua programming language. Lua is the implementation language
of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow
running Lua programs inside Nmap. Distributed with Nmap in the liblua
subdirectory. liblua can be omitted by configuring with the
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http://www.lua.org/

OpenSSL: Cryptographic library. OpenSSL is used by service detection
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LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/

libsvn. The Subversion library, used by the updater program


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WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,
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Python. The binary distributions of Nmap include a Python interpreter
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http://www.gtk.org/

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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/
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Julian Seward, jseward@bzzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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 (see http://www.digicool.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. Digital Creations is a sponsoring member of the PSF.

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Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

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1.657 coreutils 8.26-3.debian

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file and the *.copyright files for other packages included within the coreutils
source package. (Generally, these are trivial transitional packages.)
This is the Debian GNU/Linux packaged version of the GNU core
utilities.

This package is maintained by Michael Stone <mstone@debian.org> and
built from sources obtained from:

This debian package was first created by Michael Stone <mstone@debian.org>,
from coreutils 4.5.1.

Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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lib/rand-isaac.[ch]
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lib/inet_ntop.c
--------------

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m4/autobuild.m4
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From Simon Josefsson

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1.658 python-webob 1.7.2 1.el7ost
1.658.1 Available under license :

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1.659 perl-encode 2.51 7.el7
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The End
1.660 python-uri-templates 0.6 5.el7ost

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1.661 rootfiles 8.1 11.el7

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Summary: The basic required files for the root user's directory
Name: rootfiles
Version: 8.1
Release: 11%{?dist}
License: Public Domain
Group: System Environment/Base

# This is a Red Hat maintained package which is specific to
# our distribution. Thus the source is only available from
# within this srpm.
Source0: dot-bashrc
Source1: dot-bash_profile
Source2: dot-bash_logout
Source3: dot-tcshrc
Source4: dot-cshrc

Buildroot: %{_tmppath}/%{name}-%{version}-%{release}-root-%{__id_u} -n
BuildArch: noarch

%description
The rootfiles package contains basic required files that are placed
in the root user's account. These files are basically the same
as those in /etc/skel, which are placed in regular
users' home directories.
%prep

%install
rm -rf $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT/root

for file in %{SOURCE0} %{SOURCE1} %{SOURCE2} %{SOURCE3} %{SOURCE4} ; do
  f=`basename $file`
  install -p -m 644 $file $RPM_BUILD_ROOT/root/${f/dot-/.}
done

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%config(noreplace) /root/.[A-Za-z]*

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 8.1-11
  - Mass rebuild 2013-12-27

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Mar 30 2009 Ondrej Vasík <ovasik@redhat.com> - 8.1-5
  - removed clear from dot-bash_logout (synchronized with bash, related to #429406)
  - removed unset USERNAME from dot-bash_profile (synchronized with bash, related to #196735)

* Mon Mar 23 2009 Phil Knirsch <pknirsch@redhat.com> - 8.1-4
  - Added the "we-are-upstream" comments according to Fedora review (#226376)
  - Added -p option to install to preserve timestamps (#226376)

* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-3
- Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Fri Oct 31 2008 Ondrej Vasik <ovasik@redhat.com> - 8.1-2
  - Add dist tag, fix a few rpmlint issues, rebuild due to
    wrong vendor (#451229)
  - Added ncurses requirement(#469390)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.1-1.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Fri Dec 3 2004 Bill Nottingham <notting@redhat.com> 8.1-1
  - restore tcsh prompt into .tcshrc (#141782)

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com> 8-1
  - sync files with current /etc/skel stuff
  - remove Xresources (#75666)

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Wed Dec 11 2002 Tim Powers <timp@redhat.com> 7.2-5
  - rebuild

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu Jul 5 2001 Preston Brown <pbrown@redhat.com> 7.2-1
  - /sbin stuff out of PATH, moved into /etc/profile

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Tue Jul 11 2000 Preston Brown <pbrown@redhat.com>
  - fix .tcshrc

* Mon Jul 3 2000 Jakub Jelinek <jakub@redhat.com>
- don't assume ASCII ordering in glob pattern

* Sat Jun 10 2000 Bill Nottingham <notting@redhat.com>
  - rebuild
  - fix some path stuff (#11191)

* Tue Apr 18 2000 Bill Nottingham <notting@redhat.com>
  - mv .Xdefaults -> .Xresources (#10623)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 5)

* Tue Jan 12 1999 Jeff Johnson <jbj@redhat.com>
  - add %%clean (#719)

* Tue Dec 29 1998 Cristian Gafton <gafton@redhat.com>
  - build for 6.0

* Wed Oct 9 1998 Bill Nottingham <notting@redhat.com>
  - remove /root from %%files (it's in filesystem)

* Sun Aug 23 1998 Jeff Johnson <jbj@redhat.com>
  - portability fix for .cshrc (problem #235)
  - change version to be same as release.

* Tue Sep 09 1997 Erik Troan <ewt@redhat.com>
  - made a noarch package

* Thu Mar 20 1997 Erik Troan <ewt@redhat.com>
  - Removed .Xclients and .Xsession from package, added %%pre to back up old
    .Xclients if necessary.

1.662 python-warlock 1.0.1 1.el7ost
1.662.1 Available under license:

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1.673 bash 4.4-5.debian

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UnixCrypt.java 0.9 96/11/25

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modified April 2001
by Iris Van den Broeke, Daniel Deville

modified Aug 2005
by Greg Wilkins (gregw)

converted to python Jun 2009
by Eli Collins

jBCrypt
-------
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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start  End  Blocks  Id  System
------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img
---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1beb87248e05d6e462b749da65d023 bsd.img
Set 2nd partition type
2d8e8df151a88a045db233418dd73fbd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
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<tbody>
<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529c59e9341afe0443f196cb.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsiz bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0
BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsise bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>a:</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0 0 0</td>
</tr>
<tr>
<td>c:</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d:</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):

1.682 fluentd 1.2.4
1.682.1 Available under license:

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Authors from Codership Oy:

* Alexey Yurchenko <alexey.yurchenko@galeracluster.com>, Codership Oy
* Seppo Jaakola <seppo.jaakola@galeracluster.com>, Codership Oy
* Teemu Ollakka <teemu.ollakka@galeracluster.com>, Codership Oy
* Daniele Sciascia <daniele.sciascia@galeracluster.com>, Codership Oy
* Philip Stoev <philip.stoev@galeracluster.com>, Codership Oy
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Other contributors:

* Stefan Langenmaier <stefan.langenmaier@gmail.com>
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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That's all there is to it!

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1.699 geo-ip 1.5.0 13.el7

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1.700 python-gevent 1.0 3.el7

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1.701 dnsmasq 2.76 7.el7_6.1

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LIBGCRYPT Werner Koch 2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPGMatthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPGNatural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPGMichael RothGermany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPGNiklas Hernaeus 1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

GNUPG Rmi Guyomarch1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encri-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.
LIBGCRYPT Timo Schulz  2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson  2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode, CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos  2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPTThe Written Word2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards  2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang  2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT Werner Dittmann  2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov  2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org  
(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Miller  2012-02-15  
Assigns Past and Future Changes  
ulm@gentoo.org  
(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko  2012-04-26  
Assigns Past and Future Changes  
phcoder@gmail.com  
(cipher/serpent.c)

Authors with a DCO

Andrei Scherer <andsch@inbox.com>  
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>  
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>  
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>  
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>  
2012-12-14:50CAE2DB.80302@intel.com:

Jrmie Courrges-Anglas <jca@wxcvbn.org>  
2016-05-26:87bn3ssqg0.fsf@ritchie.wxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>  
2012-11-15:20121115172331.150537dzb5i6jmy8@www.dalek.fi:

Jussi Kivilinna <jussi.kivilinna@iki.fi>  
2013-05-06:5186720A.4090101@iki.fi:

Markus Teich <markus dot teich at stusta dot mhn dot de>  
2014-10-08:20141008180509.GA27770@trolle:

Milan Broz <gmazyland@gmail.com>  
2014-01-13:52D44CC6.4050707@gmail.com:

Peter Wu <peter@lekensteyn.nl>
Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

The files cipher/mdunix.c and cipher/mdw32.c are based on those files from Cryptlib. Copyright Peter Gutmann, Paul Kendall, and Chris Wedgwood 1996-1999.

The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

The implementation of the Camellia cipher has been been taken from the original NTT provided GPL source.

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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)
Michael Schroeder <mlschroe@immd4.informatik.uni-erlangen.de> (examples/rlfe)
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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.719 oci-umount 2.5 3.el7

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1.720 zlib 1.2.8.dfsg-5.debian

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Acknowledgments:

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1.728 findutils 4.6.0+git+20161106-2.debian

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It was downloaded from ftp://ftp.gnu.org/gnu/findutils

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>,
  with enhancements by David MacKenzie <djm@gnu.org>,
  Jay Plett <jay@silence.princeton.nj.us>,
  and Tim Wood <axolotl@toad.com>.
The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.
Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs
  was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

Upstream's AUTHORS lists these major contributors:
Eric B. Decker
Michael Rendell
David J. MacKenzie
Jim Meyering
Tim Wood
Kevin Dalley <kevind@rahul.net>
Paul Eggert <eggert@cs.ucla.edu>
James Youngman <jay@gnu.org>
Jay Plett
Paul Sheer
Dmitry V. Levin
Bas van Gompel
Eric Blake <ebb9@byu.net>
Andreas Metzler
Kamil Dudka <kdudka@redhat.com>
Bernhard Voelker <mail@bernhard-voelker.de>

Current upstream maintainer is James Youngman <jay@gnu.org>.

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1.729 libbabeltrace 1.2.4 5.el7cp

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1.735 spf v1.3.2 9e56dac

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1.736 python-xstatic-angular-lrdragndrop

1.0.2.2 1.el7ost
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1.737 bootswatch-common 3.3.7.0 1.el7ost

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1.739 libgcc 4.8.5 37.el7_6

1.739.1 Available under license:

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
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(acg@ats.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact...
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@appendixsubsec Preamble

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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.

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```tex
\begin{appendixsubsec}
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\end{appendixsubsec}
\end{tex}
```
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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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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.

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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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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.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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.

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the executable.

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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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   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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Ty Coon, President of Vice

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@c Set file name and title for man page.
@setfilename gpl
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@c man begin SEEALSO
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@c man end
@end ignore

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@heading TERMS AND CONDITIONS

@enumerate 0
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@enumerate a
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@item
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.

@end enumerate

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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as
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fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

The requirement to provide Installation Information does not include a
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recipient, or for the User Product in which it has been modified or
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itself materially and adversely affects the operation of the network
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```
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* m4/ax_func_which_gethostbyname_r.m4

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1.746 python-rtslib 2.1.fb63 13.el7

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1.747 python-google-api-client 1.4.2 4.el7ost

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1.748 less 458 9.el7

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Testing
=======

Every Castellan code submission is automatically tested against a number of gating jobs to prevent regressions. Castellan developers should have a habit of running tests locally to ensure the code works as intended before submission.

For your convenience we provide the ability to run all tests through the ``tox`` utility. If you are unfamiliar with tox please see refer to the `tox documentation`_ for assistance.

.. _`tox documentation`: https://tox.readthedocs.org/en/latest/

Unit Tests
----------

Currently, we provide tox environments for a variety of different Python versions. By default all available test environments within the tox configuration will execute when calling ``tox``. If you want to run an independent version, you can do so with the following command:

.. code-block:: bash

    # Executes tests on Python 2.7
    $ tox -e py27

.. note::

    Other available environments are py35, pypy and pep8.

    If you do not have the appropriate Python versions available, consider
setting up PyEnv to install multiple versions of Python. See the documentation regarding `Setting up a Barbican development environment`_ for more information.

Functional Tests

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

Unlike running unit tests, the functional tests require Barbican and Keystone services to be running in order to execute. For more information on this please see `Setting up a Barbican development environment`_ and `Using Keystone Middleware with Barbican`_.

.. _`Setting up a Barbican development environment`: https://docs.openstack.org/barbican/latest/setup/dev.html
.. _`Using Keystone Middleware with Barbican`: https://docs.openstack.org/barbican/latest/setup/keystone.html

Castellan uses either ``/etc/castellan/castellan-functional.conf`` or ``./etc/castellan/castellan-functional.conf`` in order to run functional tests. A sample file can be generated by running:

.. code-block:: bash

    # Generate a sample configuration file
    $ tox -e genconfig

    ``castellan/etc/castellan/castellan-functional.conf.sample`` is generated.
    It must be renamed to ``castellan-functional.conf`` and placed in
    ``/etc/castellan`` or ``./etc/castellan``.

The file should look something like the following:

.. code-block:: bash

    [DEFAULT]

    [identity]
    username = 'admin'
    password = 'openstack'
    project_name = 'admin'
    auth_url = 'http://localhost/identity/v3'

Once you have the appropriate services running and configured you can execute the functional tests through tox.

.. code-block:: bash

    # Execute Barbican Functional Tests
    $ tox -e functional
By default, the functional tox job will use `testr` to execute the functional tests.

**Debugging**

In order to be able to debug code in Castellan, you must use the Python Debugger. This can be done by adding `import pdb; pdb.set_trace()` to set the breakpoint. Then run the following command to hit the breakpoint:

```bash
# hit the pdb breakpoint
$ tox -e debug
```

Once in the Python Debugger, you can use the commands as stated in the `Debugger Commands` section here: https://docs.python.org/2/library/pdb.html

**Pep8 Check**

Pep8 is a style guide for Python code. Castellan code should be have proper style before submission. In order to ensure that pep8 tests can be run through tox as follows:

```bash
# Checks python code style
$ tox -e pep8
```

Any comments on bad coding style will output to the terminal.

---

**1.750 pyxattr 0.5.1 5.el7**

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That's all there is to it!

1.751 python-anyjson 0.3.3 7.1.el7ost

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1.752 python-configshell 1.1.fb23 5.el7

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1.754 python-websockify 0.8.0 1.el7

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1.755 haproxy 1.5.18 8.el7

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HAPROXY's license - 2006/06/15

Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

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1.758 python-dateutil 2.5.3

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Upstream-Name: liblz4
Upstream-Contact: Yann Collet <Cyan4973@github.com>
Source: https://github.com/lz4/lz4

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1.762 alpinelinux-aports 3.7.1

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From ed217c98b003f226500d87e65600f984a692b6ce Mon Sep 17 00:00:00 2001
From: Juergen Gross <jgross@suse.com>
Date: Tue, 29 May 2018 09:53:24 +0200
Subject: [PATCH] x86/xpti: avoid copying L4 page table contents when possible

For mitigation of Meltdown the current L4 page table is copied to the
cpu local root page table each time a 64 bit pv guest is entered.

Copying can be avoided in cases where the guest L4 page table hasn't
been modified while running the hypervisor, e.g. when handling
interrupts or any hypercall not modifying the L4 page table or %cr3.

So add a per-cpu flag indicating whether the copying should be
performed and set that flag only when loading a new %cr3 or modifying
the L4 page table. This includes synchronization of the cpu local
root page table with other cpus, so add a special synchronization flag
for that case.

A simple performance check (compiling the hypervisor via "make -j 4")
in dom0 with 4 vcpus shows a significant improvement:

- real time drops from 112 seconds to 103 seconds
- system time drops from 142 seconds to 131 seconds

Signed-off-by: Juergen Gross <jgross@suse.com>
Reviewed-by: Jan Beulich <jbeulich@suse.com>

---
xen/arch/x86/flushtlb.c | 4 ++++
xen/arch/x86/mm.c | 36 +++++++++++++++++++++++++---
xen/arch/x86/mm/shadow/multi.c | 3 +++
xen/arch/x86/smp.c | 2 +-xen/arch/x86/x86_64/asm-offsets.c | 1 +
xen/arch/x86/x86_64/entry.S | 9 +++++++--
xen/arch/x86/x86_64/traps.c | 2 ++
xen/include/asm-x86/current.h | 8 ++++++
xen/include/asm-x86/flushtlb.h | 8 +++++++
9 files changed, 57 insertions(+), 16 deletions(-)

```c
diff --git a/xen/arch/x86/flushtlb.c b/xen/arch/x86/flushtlb.c
index 8a7a76b8ff..2729ba42e7 100644
--- a/xen/arch/x86/flushtlb.c
+++ b/xen/arch/x86/flushtlb.c
@@ -8,6 +8,7 @@
*/

#include <xen/sched.h>
#include <xen/smp.h>
#include <xen/softirq.h>
#include <asm/flushtlb.h>
#include <asm/page.h>
@@ -160,5 +161,8 @@ unsigned int flush_area_local(const void *va, unsigned int flags)
    if ( flags & FLUSH_ROOT_PGTBL )
        get_cpu_info()->root_pgt_changed = true;
    return flags;
}

diff --git a/xen/arch/x86/mm.c b/xen/arch/x86/mm.c
index 63a933fd5f..171137310b 100644
--- a/xen/arch/x86/mm.c
+++ b/xen/arch/x86/mm.c
@@ -512,6 +512,7 @@ void make_cr3(struct vcpu *v, unsigned long mfn)
void write_ptbase(struct vcpu *v)
{
    get_cpu_info()->root_pgt_changed = true;
    write_cr3(v->arch.cr3);
}
@@ -4052,18 +4053,27 @@ long do_mmu_update(
    case PGT_l4_page_table:
        rc = mod_l4_entry(va, l4e_from_intpte(req.val), mfn,
                           cmd == MMU_PT_UPDATE_PRESERVE_AD, v);
-    /*
-     * No need to sync if all uses of the page can be accounted
-     * to the page lock we hold, its pinned status, and uses on
-     * this (v)CPU.
-     */
-    if ( !rc && !cpu_has_no_xpti &&
        ((page->u.inuse.type_info & PGT_count_mask) >
         (1 + !(page->u.inuse.type_info & PGT_pinned)) +
```
- (pagetable_get_pfn(curr->arch.guest_table_user) ==
- mfn))) )
- sync_guest = true;
+ if ( !rc && !cpu_has_no_xpti )
+ {
+     bool local_in_use = false;
+
+     if ( pagetable_get_pfn(curr->arch.guest_table) == mfn )
+     {
+         local_in_use = true;
+         get_cpu_info()->root_pgt_changed = true;
+     }
+
+     /*
+     * No need to sync if all uses of the page can be
+     * accounted to the page lock we hold, its pinned
+     * status, and uses on this (v)CPU.
+     */
+     if ( (page->u.inuse.type_info & PGT_count_mask) >
+         (1 + !!((page->u.inuse.type_info & PGT_pinned) +
+                  (pagetable_get_pfn(curr->arch.guest_table_user) ==
+                   mfn) + local_in_use)) )
+         sync_guest = true;
+     }
+     break;
+     case PGT_writable_page:
+         perfc_incr(writable_mmu_updates);
+     }
+     cpumask_andnot(mask, pt_owner->domain_dirty_cpumask, cpumask_of(cpu));
+     if ( !cpumask_empty(mask) )
+     -     flush_mask(mask, FLUSH_TLB_GLOBAL);
+     +     flush_mask(mask, FLUSH_TLB_GLOBAL | FLUSH_ROOT_PGTBL);
+     }
+
+     perfc_add(num_page_updates, i);
+     diff --git a/xen/arch/x86/mm/shadow/multi.c b/xen/arch/x86/mm/shadow/multi.c
+     index 93771d9e43..a53d3db56c 100644
+     --- a/xen/arch/x86/mm/shadow/multi.c
+     +++ b/xen/arch/x86/mm/shadow/multi.c
+     @@ -951,6 +951,8 @@ static int shadow_set_l4e(struct domain *d,
+     /* shadow_write_entries(sl4e, &new_sl4e, 1, sl4mfn);
+       + flush_root_pgtbl_domain(d);
+       +
+       flags |= SHADOW_SET_CHANGED;
if ( shadow_l4e_get_flags(old_sl4e) & _PAGE_PRESENT )
@@ -965,6 +967,7 @@ static int shadow_set_l4e(struct domain *d,
    sh_put_ref(d, osl3mf, paddr);
}
+
    return flags;
}

diff --git a/xen/arch/x86/smp.c b/xen/arch/x86/smp.c
index 70de53d4fe..e8b949da61 100644
--- a/xen/arch/x86/smp.c
+++ b/xen/arch/x86/smp.c
@@ -208,7 +208,7 @@ void invalidate_interrupt(struct cpu_user_regs *regs)
        ack_APIC_irq();
        perfc_incr(ipis);
        if ( __sync_local_execstate() )
-            flags &= ~(FLUSH_TLB | FLUSH_TLB_GLOBAL);
+            flags &= ~(FLUSH_TLB | FLUSH_TLB_GLOBAL | FLUSH_ROOT_PGTBL);
            flush_area_local(flush_va, flags);
            cpumask_clear_cpu(smp_processor_id(), &flush_cpumask);
    }

diff --git a/xen/arch/x86/x86_64/asm-offsets.c b/xen/arch/x86/x86_64/asm-offsets.c
index cc97d753df..a347083d23 100644
--- a/xen/arch/x86/x86_64/asm-offsets.c
+++ b/xen/arch/x86/x86_64/asm-offsets.c
@@ -144,6 +144,7 @@ void __dummy__(void)
 OFFSET(CPUINFO_shadow_spec_ctrl, struct cpu_info, shadow_spec_ctrl);
 OFFSET(CPUINFO_xen_spec_ctrl, struct cpu_info, xen_spec_ctrl);
 OFFSET(CPUINFO_spec_ctrl_flags, struct cpu_info, spec_ctrl_flags);
+    OFFSET(CPUINFO_root_pgt_changed, struct cpu_info, root_pgt_changed);
 DEFINE(CPUINFO_sizeof, sizeof(struct cpu_info));
 BLANK();

diff --git a/xen/arch/x86/x86_64/entry.S b/xen/arch/x86/x86_64/entry.S
index cdf5090ec7..67e9b49a5c 100644
--- a/xen/arch/x86/x86_64/entry.S
+++ b/xen/arch/x86/x86_64/entry.S
@@ -161,11 +161,15 @@ restore_all_guest:
 mov   VCPU_cr3(%rbx), %r9
 GET_STACK_END(dx)
 mov   STACK_CPUINFO_FIELD(pv_cr3)(%rdx), %rdi
+        test  %rdi, %rdi
+        jz    .Lrag_keep_cr3
+        mov   %rdi, %rax
+        cmpb  $0, STACK_CPUINFO_FIELD(root_pgt_changed)(%rdx)
+        je    .Lrag_copy_done
+        movb  $0, STACK_CPUINFO_FIELD(root_pgt_changed)(%rdx)
movabs $PADDR_MASK & PAGE_MASK, %rsi
movabs $DIRECTMAP_VIRT_START, %rcx
-    mov %rdi, %rax
    and %rsi, %rdi
-    jz .Lrag_keep_cr3
    and %r9, %rsi
    add %rcx, %rdi
    add %rcx, %rsi
@@ -180,6 +184,7 @@ restore_all_guest:
    sub $(ROOT_PAGETABLE_FIRST_XEN_SLOT - \" - 1) * 8, %rdi
    rep movsq
+    .Lrag_copy_done:
    mov STACK_CPUINFO_FIELD(cr4)(%rdx), %rdi
    mov %r9, STACK_CPUINFO_FIELD(xen_cr3)(%rdx)
    mov %rdi, %rsi
diff --git a/xen/arch/x86/x86_64/traps.c b/xen/arch/x86/x86_64/traps.c
index 4f92a21ca8..8bb2f1afe5 100644
--- a/xen/arch/x86/x86_64/traps.c
+++ b/xen/arch/x86/x86_64/traps.c
@@ -284,6 +284,8 @@ void toggle_guest_pt(struct vcpu *v)
    v->arch.flags ^= TF_kernel_mode;
    update_cr3(v);
+    get_cpu_info()->root_pgt_changed = true;
+    /* Don't flush user global mappings from the TLB. Don't tick TLB clock. */
    asm volatile ( "mov %0, %%cr3" : : "r" (v->arch.cr3) : "memory" );
diff --git a/xen/include/asm-x86/current.h b/xen/include/asm-x86/current.h
index 7afff0e245..f0061bd497 100644
--- a/xen/include/asm-x86/current.h
+++ b/xen/include/asm-x86/current.h
@@ -59,6 +59,14 @@ struct cpu_info {
    uint8_t      xen_spec_ctrl;
    uint8_t      spec_ctrl_flags;
+    /* The following field controls copying of the L4 page table of 64-bit
+     * PV guests to the per-cpu root page table on entering the guest context.
+     * If set the L4 page table is being copied to the root page table and
+     * the field will be reset.
+     */
+    bool root_pgt_changed;
+    unsigned long __pad;
+    /* get_stack_bottom() must be 16-byte aligned */
};
diff --git a/xen/include/asm-x86/flushtlb.h b/xen/include/asm-x86/flushtlb.h
index 5f78bbbe3d..ca2cd16721 100644
--- a/xen/include/asm-x86/flushtlb.h
+++ b/xen/include/asm-x86/flushtlb.h
@@ -101,6 +101,8 @@ void write_cr3(unsigned long cr3);
#define FLUSH_CACHE 0x400
 /* VA for the flush has a valid mapping */
#define FLUSH_VA_VALID 0x800
+ /* Flush the per-cpu root page table */
+#define FLUSH_ROOT_PGTBL 0x2000

 /* Flush local TLBs/caches. */
 unsigned int flush_area_local(const void *va, unsigned int flags);
@@ -132,6 +134,12 @@ void flush_area_mask(const cpumask_t *, const void *va, unsigned int flags);
 flush_tlb_one_mask(&cpu_online_map, v)
+}
+if ( !cpu_has_no_xpti && is_pv_domain(d) && !is_pv_32bit_domain(d) )
+    flush_mask((d)->domain_dirty_cpumask, FLUSH_ROOT_PGTBL);
+}
+
+static inline void flush_page_to_ram(unsigned long mfn) {}
static inline int invalidate_dcache_va_range(const void *p, unsigned long size)
--

2.15.2
mini_sendmail - accept email on behalf of real sendmail

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SUCH DAMAGE.

--- a/main.c
+++ b/main.c
@@ -33,7 +33,7 @@
 #include "extern.h"
 #define AGREEMENT "https://letsencrypt.org" \
 - " /documents/LE-SA-v1.1.1-August-1-2016.pdf"
 #define SSL_DIR "/etc/ssl/acme"
 #define SSL_PRIV_DIR "/etc/ssl/acme/private"
 #define ETC_DIR "/etc/acme"
 # Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
 # Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
 pkgname=py-flake8-copyright
 _pkgname=flake8-copyright
 pkgver=0.2.0
 pkgrel=1
 pkgdesc="Extension for flake8 which checks for copyrights"
 url="https://github.com/savoirfairelinux/flake8-copyright"
 arch="noarch"
 license="MIT"
 depends="flake8"
 makedepends="python3-dev"
 source=https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
 builddir="$srcdir"/_pkgname=${pkgver}

 build() {
 cd "$builddir"
 python3 setup.py build || return 1
 }

 package() {
 cd "$builddir"
 python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
 }

 md5sums="c6348990c6d74933bf5d5f6a55a14bdf flake8-copyright-0.2.0.tar.gz"
 sha256sums="aeef26eb4d5223e9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73 flake8-copyright-0.2.0.tar.gz"
 sha512sums="bab1bfaaed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff55d86c3b1be9570f4a977a7e2417b586e543bfba12abe256b2023c8c4993eeb90 flake8-copyright-0.2.0.tar.gz"
 /*
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*/

# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=2

cd "$_builddir"
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test || return 1
}

package() {
    cd "$_builddir"
...
make DESTDIR="/Spkgdir" install || return 1
find "/Spkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

md5suns="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256suns="c47d4d0e2bd00d8d049f6f4a0f1f61957e289e8de45af5c79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512suns="5f489eac5089e82081b7cf51d62638750e443751b49415407354da9eb17771819b5e6e85529faa41ddd
85743634350157943c7f7700276ccee2bd40a429fa430  BSD-Resource-1.2909.tar.gz"

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

_prepare() {
    cd "$_builddir"
    update_config_sub || return 1
}
build() {
    cd "$_builddir"
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr \
    || return 1
    make || return 1
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001ae9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"

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pkgname=perl-software-license
_pkpgrel=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="" 
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
  cd "$_builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
  cd "$_builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  make && make test
}

package() {
  cd "$_builddir"
  make DESTDIR="$pkgdir" install || return 1
  find "$pkgdir" ![ -name perllocal.pod -o -name .packlist ] -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"

fix issues with fortify-headers and the way openssh handles the needed
BSD compatible realpath(3).

unconditionally use the provided realpath() as otherwise cross-builds
would try to use musl realpath() which is posix compliant and not
working to openssh expectations.

diff -ru openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h openssh-7.2p2/openbsd-compat/openbsd-compat.h
--- openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h2016-03-09 20:04:48.000000000 +0200
@@ -68,17 +68,7 @@
    void *reallocarray(void *, size_t, size_t);
#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
-/*
-* glibc's FORTIFY_SOURCE can redefine this and prevent us picking up the
-* compat version.
-* */
-#ifdef BROKEN_REALPATH
-# define realpath(x, y) _ssh_compat_realpath(x, y)
-# endif
-"
-char *realpath(const char *path, char *resolved);
-#endif
+char *ssh_realpath(const char *path, char *resolved);

#define HAVE_REALPATH
int rresvport_af(int *alport, sa_family_t af);
diff -ru openssh-7.2p2.orig/openbsd-compat/realpath.c openssh-7.2p2/openbsd-compat/realpath.c
--- openssh-7.2p2.orig/openbsd-compat/realpath.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/openbsd-compat/realpath.c 2016-07-18 13:33:45.420721690 +0300
@@ -31,7 +31,7 @@
 #include "includes.h"

-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
+#if 1

#include <sys/types.h>
#include <sys/param.h>
@@ -58,7 +58,7 @@
 * in which case the path which caused trouble is left in (resolved).
 */
 char *
-realpath(const char *path, char *resolved)
+ssh_realpath(const char *path, char *resolved)
{
 struct stat sb;
 char *p, *q, *s;

diff -ru openssh-7.2p2.orig/sftp-server.c openssh-7.2p2/sftp-server.c
--- openssh-7.2p2.orig/sftp-server.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/sftp-server.c 2016-07-18 13:34:29.131267241 +0300
@@ -1162,7 +1162,7 @@
 } debug3("request %u: realpath", id);
 verbose("realpath \"%s\"", path);
 -if (realpath(path, resolvedname) == NULL) {
+if (ssh_realpath(path, resolvedname) == NULL) {
 send_status(id, errno_to_portable(errno));
 } else {
 Stat s;

1.763 libsysfs 2.1.0 16.el7
1.763.1 Available under license :

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Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Burcu Dogan <jbd@google.com>
Dave Day <djd@golang.org>
David Sansome <me@davidsansome.com>
David Symonds <dsymonds@golang.org>
Filippo Valsorda <hi@filippo.io>
Glenn Lewis <gmlewis@google.com>
Ingo Oeser <nightlyone@googlemail.com>
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Johan Euphrosine <proppy@google.com>
Jonathan Amsterdam <jba@google.com>
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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <cerami1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <johntuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephenday@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>

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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@goolgers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <slight@gmail.com>
Sarah Adams <shadams@google.com>
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proofs provide functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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tomb - support for clean goroutine termination in Go.

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1.771 python-dogpile-cache 0.6.2 1.el7ost

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1.772 pycurl 7.19.0 19.el7

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1.774 opus 1.0.2 6.el7
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-------------------------------------------------------------------------
Todd Veldhuizen <tveldhui AT gmail DOT com> Tue, Mar 25, 2008 at 11:55 AM
To: Jarrod Millman <millman AT berkeley DOT edu>
Cc: Julian Cummings <cummings AT cacr DOT caltech DOT edu>, Todd Veldhuizen
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I have no objections to releasing it under a BSD license.

best
Todd

On 21/03/2008, Jarrod Millman <millman AT berkeley DOT edu> wrote:
> Julian and Todd,
>
I'm writing to see if we can get an exception to the Blitz license so that it can be released with a BSD license within SciPy. Currently, the Fedora project is classifying the entire SciPy package as GPLed because one package, scipy.weave, uses blitz. (the rest of the code is all BSD). We were about to launch into the re-factoring step to make the blitz portion optional, when it occurred to us to just ask you guys first. :-)

Blitz is included in the scipy.weave package which allows you to inline C/C++ within Python. Users have the option of converting NumPy arrays to blitz arrays for use in C++. There is also a function (weave.blitz) that will automatically convert NumPy expressions in Python to Blitz expressions in C++. Often this shows notable speed improvements. Our re-factoring step will require us to split the blitz code into the blitz and non-blitz portions. This is a bit of a pain, and ends up with more installation issues than if we didn't do it.

Thanks for your consideration,

--

Jarrod Millman
Computational Infrastructure for Research Labs
10 Giannini Hall, UC Berkeley
phone: 510.643.4014
http://cirl.berkeley.edu/

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files split from toms/big644 on 1 Dec 1987 (already public)
------m dongarra Fri Jun 21 17:58:49 EDT 1991
Subject: amos

As I install the new dependency resolution mechanism for netlib, I'm recompiling lots of libraries, sometimes for the first time in years.
The amos collection is causing me trouble because it defines a function
zabs() which the SGI compiler believes is an intrinsic (with different arguments). For expediency, I'm just dropping the ".l" prefix from amos in /netlib/admin/LIBS.

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This version obtained on 1 Jun 84 from (kahaner@nbs-sdc)
David K. Kahaner
Scientific Computing Division
National Bureau of Standards
Washington DC 20234

WARNING: the calling sequences here differ from those in the book:
R. Piessens, E. deDoncker-Kapenga, C. Uberhuber, D. Kahaner
Quadpack: a Subroutine Package for Automatic Integration
Springer Verlag, 1983. Series in Computational Mathematics v.1
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1.785 git 1.8.3.1 20.el7
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1.789 python-oauth2client 1.5.2 4.el7ost

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1.790 atlas 3.10.1 12.el7

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1.791 perl-compress-raw-bzip2 2.061 3.el7

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1.792 iproute 4.11.0 14.el7_6.2
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dist/ExtUtils-Install/*
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  ext/Fcntl/*
  ext/FileCache/*
  ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
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1.803 python-gflags 2.0 5.el7ost

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1.804 perl-http-tiny 0.033 3.el7

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.814 e2fsprogs 1.42.9 13.el7

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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*/
#
# This is 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) $(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-shlibs

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
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Gadi Oxman, August 1995

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23-June-2007

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1.816 rhn-check 2.0.2 24.el7

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June 26, 2010
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```
| _ \| |||_   
| | )| |_|` \_ \ `Ian Fleming was a UNIX fan!
|_| | / | || | How do I know? Well, James Bond
| \_/ / | | | had the (license to kill) number 007,
| | \_/ | | | i.e., he could execute anyone!
```

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1.837 python2-gnocchiclient 7.0.1 1.el7ost
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1.838 python-tinyrpc 0.5

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1.839 glusterfs 3.12.2 18.el7

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From 9a95de08eb49f10c0a342099826d5e4c445749aa Mon Sep 17 00:00:00 2001
From: Mohit Agrawal <moagrawa@redhat.com>
Date: Thu, 31 May 2018 12:29:35 +0530
Subject: [PATCH 313/325] dht: Inconsistent permission for directories after
brick stop/start
Problem: Inconsistent access permissions on directories after bringing back the down sub-volumes, in case of directories `dht_setattr` first wind a call on MDS once call is finished on MDS then wind a call on NON-MDS. At the time of revalidating dht just compare the uid/gid with stbuf uid/gid and if anyone differs set a flag to heal the same.

Solution: Add a condition to compare permission also in `dht_revalidate_cbk` to set a flag to call `dht_dir_attr_heal`.

> BUG: 1584517
> Change-Id: I3e039607148005015b5d93364536158380d4c5aa
> fixes: bz#1584517
> (cherry picked from commit e57c9ae0b5cc3d8649b869eda5ec20f3c6a6d34f0)
> (Reviewed on upstream link https://review.gluster.org/#/c/20108/)

BUG: 1582066
Change-Id: I985445521aeeddce52c0a56ec20287e523aa3398b
Signed-off-by: Mohit Agrawal <moagrawa@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/143721
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Reviewed-by: Sunil Kumar Heggodu Gopala Acharya <sheggodu@redhat.com>
---
tests/bugs/bug-1584517.t | 70 ++++++++++++++++++++++++++++++++xlators/cluster/dht/src/dht-common.c | 81 +++++++++++++++++++++++++++++++++------------------xlators/cluster/dht/src/dht-common.h | 3 ++xlators/cluster/dht/src/dht-selfheal.c | 2 +-4 files changed, 147 insertions(+), 9 deletions(-)
create mode 100644 tests/bugs/bug-1584517.t
diff --git a/tests/bugs/bug-1584517.t b/tests/bugs/bug-1584517.t
new file mode 100644
index 0000000..7f48015
--- /dev/null
+++ b/tests/bugs/bug-1584517.t
@@ -0,0 +1,70 @@
+#!/bin/bash
+. $(dirname $0)/../include.rc
+. $(dirname $0)/../volume.rc
+. $(dirname $0)/../dht.rc
+cleanup;
+This test case verifies attributes (uid/gid/perm) for the
+#directory are healed after stop/start brick. To verify the same
+test case change attributes of the directory after down a DHT subvolume
+and one AFR children. After start the volume with force and run lookup
+operation attributes should be healed on started bricks at the backend.
+

+TEST glusterd
+TEST pidof glusterd
+TEST SCLI volume create $V0 replica 3 $H0:$B0/${V0}{0,1,2,3,4,5}
+TEST SCLI volume start $V0
+TEST useradd dev -M
+TEST groupadd QA
+
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+
+TEST mkdir $M0/dironedown
+
+TEST kill_brick $V0 $H0 $B0/${V0}2
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "5" online_brick_count
+
+TEST kill_brick $V0 $H0 $B0/${V0}3
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "4" online_brick_count
+
+TEST kill_brick $V0 $H0 $B0/${V0}4
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "3" online_brick_count
+
+TEST kill_brick $V0 $H0 $B0/${V0}5
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "2" online_brick_count
+
+TEST chown dev $M0/dironedown
+TEST chgrp QA $M0/dironedown
+TEST chmod 777 $M0/dironedown
+
+#store the permissions for comparision
+permission_onedown="ls -l $M0 | grep dironedown | awk '{print $1}"
+
+TEST SCLI volume start $V0 force
+EXPECT_WITHIN ${PROCESS_UP_TIMEOUT} "6" online_brick_count
+
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+
+#Run lookup two times to hit revalidate code path in dht
+## to heal user attr
+
+TEST ls $M0/dironedown
+
+#check attributes those were created post brick going down
+TEST brick_perm="ls -l $B0/${V0}3 | grep dironedown | awk '{print $1}""
+TEST echo $brick_perm
+TEST [ $brick_perm = "permissions_onedown" ]
+uid="ls -l $B0/${V0}3 | grep dironedown | awk '{print $3}"
+TEST echo $uid
+TEST [ $uid = dev ]
+gid="ls -l $B0/${V0}3 | grep dironedown | awk '{print $4}""
+TEST echo $gid
+TEST [ $gid = QA ]
+
+TEST umount $M0
+userdel --force dev
+groupdel QA
+
+cleanup
+exit
+
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index c6adce4..23049b6 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c
@@ -1329,6 +1329,8 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
 char          gfid_local[GF_UUID_BUF_SIZE] = {0};
 char          gfid_node[GF_UUID_BUF_SIZE]  = {0};
+        call_frame_t *copy                         = NULL;
+        dht_local_t  *copy_local                   = NULL;

 GF_VALIDATE_OR_GOTO ("dht", frame, out);
 GF_VALIDATE_OR_GOTO ("dht", this, out);
@@ -1401,6 +1403,23 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
 dht_aggregate_xattr (local->xattr, xattr);
 }
+
+    if (dict_get (xattr, conf->mds_xattr_key)) {
+        local->mds_subvol  = prev;
+        local->mds_stbuf.ia_gid = stbuf->ia_gid;
+        local->mds_stbuf.ia_uid = stbuf->ia_uid;
+        local->mds_stbuf.ia_prot = stbuf->ia_prot;
+    }
+
+    if (local->stbuf.ia_type != IA_INVAL) {
+        if (!__is_root_gfid (stbuf->ia_gfid) &&
+            ((local->stbuf.ia_gid != stbuf->ia_gid) ||
+            (local->stbuf.ia_uid != stbuf->ia_uid) ||
+            (is_permission_different (&local->stbuf.ia_prot,
+            &stbuf->ia_prot)))) {
+            local->need_attrheal = 1;
+        }
+    }
+
+    if (local->inode == NULL)
+        local->inode = inode_ref (inode);
+
@@ -1496,6 +1515,43 @@ unlock:
&local->postparent, 1);

+    if (local->need_attrheal) {
+        local->need_attrheal = 0;
+        if (!__is_root_gfid(inode->gfid)) {
+            gf_uuid_copy(local->gfid, local->mds_stbuf.ia_gfid);
+            local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+            local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
+            local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
+        }
+        copy = create_frame(this, this->ctx->pool);
+        if (copy) {
+            copy_local = dht_local_init(copy, &local->loc,
+                                         NULL, 0);
+            if (!copy_local) {
+                DHT_STACK_DESTROY(copy);
+                goto skip_attr_heal;
+            }
+            copy_local->stbuf = local->stbuf;
+            copy_local->mds_stbuf = local->mds_stbuf;
+            copy_local->mds_subvol = local->mds_subvol;
+            copy->local = copy_local;
+            FRAME_SU_DO(copy, dht_local_t);
+            ret = synctask_new(this->ctx->env,
+                               dht_dir_attr_heal,
+                               dht_dir_attr_heal_done,
+                               copy, copy);
+            if (ret) {
+                gf_msg(this->name, GF_LOG_ERROR, ENOMEM,
+                       DHT_MSG_DIR_ATTR_HEAL_FAILED,
+                       "Synctask creation failed to heal attr ",
+                       "for path %s gfid %s",
+                       local->loc.path, local->gfid);
+                DHT_STACK_DESTROY(copy);
+            }
+        }
+    }
+    
+skip_attr_heal:
+    DHT_STRIP_PHASE1_FLAGS(&local->stbuf);
+    dht_set_fixed_dir_stat(&local->postparent);
+
/* Delete mds xattr at the time of STACK UNWIND */
@@ -1516,7 +1572,7 @@ out:
    return ret;
}
+int
is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
{
    if ((prot1->owner.read != prot2->owner.read) ||
        (local->stbuf.ia_gid != stbuf->ia_gid) ||
        (local->stbuf.ia_uid != stbuf->ia_uid) ||
        !is_permission_different (__is_root_gfid (stbuf->ia_gfid) &&
            &local->stbuf.ia_prot,
            &stbuf->ia_prot)) {
        local->need_selfheal = 1;
    }
}

if (!dict_get (xattr, conf->mds_xattr_key)) {
    gf_msg_debug (this->name, 0,
        "internal xattr is not present"
    )
}

if (!__is_root_gfid (inode->gfid)) {
    gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
    if (local->mds_stbuf.ia_gid || local->mds_stbuf.ia_uid) {
        local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
        local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
    }
    local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
    local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
    local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
} else {
    gf_uuid_copy (local->gfid, local->stbuf.ia_gfid);
    local->stbuf.ia_gid = local->prefbuf.ia_gfid;
}

if (copy) {
    copy_local = dht_local_init (copy, &local->loc,
        NULL, 0);
    if (!copy_local)
        DHT_STACK_DESTROY (copy);
    goto cont;
}

if (!copy_local) {
    DHT_STACK_DESTROY (copy);
    goto cont;
}

copy_local->stbuf = local->stbuf;
copy_local->mds_stbuf = local->mds_stbuf;
copy_local->mds_subvol = local->mds_subvol;
copy, copy); 
+    if (ret) {
+        gf_msg (this->name, GF_LOG_ERROR, ENOMEM, 
+                DHT_MSG_DIR_ATTR_HEAL_FAILED, 
+                "Syncntask creation failed to heal attr " 
+                "for path %s gfid %s ",
+                local->loc.path, local->gfid);
+        DHT_STACK_DESTROY (copy);
+    }
+}
}

cont:

diff --git a/xlators/cluster/dht/src/dht-common.h b/xlators/cluster/dht/src/dht-common.h
index a70342f..b40815c 100644
--- a/xlators/cluster/dht/src/dht-common.h
+++ b/xlators/cluster/dht/src/dht-common.h
@@ -298,6 +298,7 @@ struct dht_local {
    xlator_t                *mds_subvol; /* This is use for dir only */
    char                     need_selfheal;
    char                     need_xattr_heal;
+    char                     need_attrheal;
    int                      file_count;
    int                      dir_count;
    call_frame_t            *main_frame;
@@ -1491,4 +1492,6 @@ int
    dht_selfheal_dir_setattr (call_frame_t *frame, loc_t *loc, struct iatt *stbuf,
                               int32_t valid, dht_layout_t *layout);

+int
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2);
#endif/* _DHT_H */

diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
index e9b1db9..035a709 100644
--- a/xlators/cluster/dht/src/dht-selfheal.c
+++ b/xlators/cluster/dht/src/dht-selfheal.c
@@ -2495,7 +2495,7 @@ dht_dir_attr_heal (void *data)

    } else {
        ret = syncop_setattr (subvol, &local->loc, &local->mds_stbuf,
-                             (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
+                             (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
                                NULL, NULL, NULL, NULL);
    }
}

--
1.8.3.1

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From 0b7fa3b3ddd3334c70d99d1a1b99c3e37d49fc66e3 Mon Sep 17 00:00:00 2001
From: Atin Mukherjee <amukherj@redhat.com>
Date: Mon, 12 Mar 2018 19:47:11 +0530
Subject: [PATCH 184/201] cli/glusterfsd: remove copyright information

There’s no point of dumping upstream copyright information in --version.

Label: DOWNSTREAM ONLY

Change-Id: I3a10e30878698e1d53082936bbf22bca560a3896
BUG: 1550474
Signed-off-by: Atin Mukherjee <amukherj@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/132445
Tested-by: RHGS Build Bot <nigelb@redhat.com>
Reviewed-by: Milind Changire <mchangir@redhat.com>
---
cli/src/cli.c | 10 +--------
glusterfsd/src/glusterfsd.c | 10 +--------
2 files changed, 2 insertions(+), 18 deletions(-)
diff --git a/cli/src/cli.c b/cli/src/cli.c
index ce06366..52c1b67 100644
--- a/cli/src/cli.c
+++ b/cli/src/cli.c
@@ -66,15 +66,7 @@
 extern int connected;

/* using argp for command line parsing */

const char *argp_program_version = "
- PACKAGE_NAME" "PACKAGE_VERSION
- "\nRepository revision: " GLUSTERFS_REPOSITORY_REVISION "\n- "Copyright (c) 2006-2016 Red Hat, Inc. "
- "<https://www.gluster.org/\n" - "GlusterFS comes with ABSOLUTELY NO WARRANTY.\n- "It is licensed to you under your choice of the GNU Lesser\n- "General Public License, version 3 or any later version (LGPLv3\n- "or later), or the GNU General Public License, version 2 (GPLv2),\n- "in all cases as published by the Free Software Foundation."
+ PACKAGE_NAME" "PACKAGE_VERSION;
const char *argp_program_bug_address = "<" PACKAGE_BUGREPORT "">";

struct rpc_clnt *global_quotad_rpc;
diff --git a/glusterfsd/src/glusterfsd.c b/glusterfsd/src/glusterfsd.c
index eeffdc5..38b863c 100644
--- a/glusterfsd/src/glusterfsd.c
+++ b/glusterfsd/src/glusterfsd.c
@@ -87,15 +87,7 @@ static char gf_doc[] = ""
static char argp_doc[] = "--volfile-server=SERVER [MOUNT-POINT]\n- "--volfile=VOLFILE [MOUNT-POINT]");
const char *argp_program_version = ""
- PACKAGE_NAME" "PACKAGE_VERSION
- "\nRepository revision: " GLUSTERFS_REPOSITORY_REVISION "\n- "Copyright (c) 2006-2016 Red Hat, Inc. "
- "<https://www.gluster.org/\n" - "GlusterFS comes with ABSOLUTELY NO WARRANTY.\n- "It is licensed to you under your choice of the GNU Lesser\n- "General Public License, version 3 or any later version (LGPLv3\n- "or later), or the GNU General Public License, version 2 (GPLv2),\n- "in all cases as published by the Free Software Foundation."
+ PACKAGE_NAME" "PACKAGE_VERSION;
const char *argp_program_bug_address = "<" PACKAGE_BUGREPORT "">";

static error_t parse_opts (int32_t key, char *arg, struct argp_state *_state);

---

1.8.3.1

1.840 python-networkx 1.10 1.1.el7ost
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1.841 python-xstatic-jquery-tablesorter

2.14.5.1 2.el7ost

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1.842 libverto 0.2.5 4.el7

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1.843 passwd 0.79 4.el7

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The End

1.845 device-mapper-persistent-data 0.7.3
3.el7

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  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice
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```golang-lru (a0d98a5f288019575c6d1f4bb1573fef2d1fcdc4)```

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## Deep Dependencies

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### Details

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1.851 python2-aodhclient 1.0.0 1.el7ost

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=========
Testing
=========

The preferred way to run the unit tests is using `tox`. There are multiple
test targets that can be run to validate the code.

``tox -e pep8``

Style guidelines enforcement.

``tox -e py27``

Traditional unit testing.

``tox -e functional``

Live functional testing against an existing OpenStack instance.

Functional testing assumes the existence of a `clouds.yaml` file as supported
It assumes the existence of a cloud named `devstack` that behaves like a normal
DevStack installation with a demo and an admin user/tenant - or clouds named
`functional_admin` and `functional_nonadmin`.

Refer to `Consistent Testing Interface` for more details.

__https://git.openstack.org/cgit/openstack/governance/tree/reference/project-testing-interface.rst

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.. include:: ../../../devstack/README.rst

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Module Reference
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.. toctree::
   :maxdepth: 1
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.. toctree::
   :maxdepth: 2

contributing
fwaas_v2
devstack

.. API reference contains a lot of sections, toctree with maxdepth 1 is used.
.. toctree::
   :glob:
   :maxdepth: 1

  modules
FireWall as a Service V2

The FireWall as a Service API V2
specification lists the changes that together compose FWaaS V2. These changes are not fully implemented.

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https://docs.openstack.org/infra/manual/developers.html

Once those steps have been completed, changes to OpenStack should be submitted for review via the Gerrit tool, following the workflow documented at:
https://docs.openstack.org/infra/manual/developers.html#development-workflow

Pull requests submitted through GitHub will be ignored.

Bugs should be filed on Launchpad in the 'neutron' project:
https://bugs.launchpad.net/neutron

To get in touch with the neutron-fwaas community, look at the following resources:

- Join the #openstack-fwaas IRC channel on Freenode. This is where the FireWall-as-a-Service team is available for discussion.
- Join the 'FireWall-as-a-Service weekly IRC meeting
  <http://eavesdrop.openstack.org/#Firewall_as_a_Service_(FWaaS)_Team_Meeting>_
  where the status of new initiatives and bugs is discussed.

These are a great places to get recommendations on where to start contributing to neutron-fwaas.

1.861 vine 1.2.0

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### 1.863 docker 1.13.1 109.gitcccb291.el7_7

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Gocheck - A rich testing framework for Go

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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 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 to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<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

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.
The Corresponding Source for a work in source code form is that same work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.
You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"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.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.
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1.882 expat 2.2.0-2+deb9u3.debian

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The source package was downloaded from <URL:http://expat.sourceforge.net>.

The original packager is Adam Di Carlo <aph@debian.org>, later Ardo van Rangelrooij <ardo@debian.org> maintained the package. Now Laszlo Boszormenyi (GCS) <gcs@debian.org> looks after it.

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sánchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John
The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
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Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
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Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
 Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
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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 (see http://www.digicool.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
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.889 python-ply 3.4 11.el7

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1.890 http-parser-rb 0.6.0
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1.891 python-dateutil 2.7.3

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1.892 e2fsprogs 1.43.4-2+deb9u1.debian

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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 package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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/*
 * hmac.c is derived from:

Network Working Group    H. Krawczyk
Request for Comments: 2104   IBM
Category: Informational    M. Bellare
        UCSD
        R. Canetti
        IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code
==========================================================================
Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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Version 1.1

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1.897 alpinelinux-aports 3.5.2
1.897.1 Available under license:
fix issues with fortify-headers and the way openssh handles the needed BSD compatible realpath(3).
unconditionally use the provided realpath() as otherwise cross-builds
would try to use musl realpath() which is posix compliant and not
working to openssh expectations.

diff -ru openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h openssh-7.2p2/openbsd-compat/openbsd-compat.h
--- openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h 2016-03-09 20:04:48,000000000 +0200
@@ -68,17 +68,7 @@
 void *reallocarray(void *, size_t, size_t);
 #endif
-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
-/*
- * glibc's FORTIFY_SOURCE can redefine this and prevent us picking up the
- * compat version.
- */
- #endif
-#ifdef BROKEN_REALPATH
- # define realpath(x, y) _ssh_compat_realpath(x, y)
- #endif
- char *realpath(const char *path, char *resolved);
-#endif
+char *ssh_realpath(const char *path, char *resolved);

#ifndef HAVE_RRESVPORT_AF
 int rresvport_af(int *alport, sa_family_t af);
diff -ru openssh-7.2p2.orig/openbsd-compat/realpath.c openssh-7.2p2/openbsd-compat/realpath.c
--- openssh-7.2p2.orig/openbsd-compat/realpath.c 2016-03-09 20:04:48,000000000 +0200
+++ openssh-7.2p2/openbsd-compat/realpath.c 2016-07-18 13:33:45,420721690 +0300
@@ -31,7 +31,7 @@
 * in which case the path which caused trouble is left in (resolved).
 */
 char *
-realpath(const char *path, char *resolved)
+ssh_realpath(const char *path, char *resolved)
 {
  struct stat sb;
 char *p, *q, *s;
diff -ru openssh-7.2p2.orig/sftp-server.c openssh-7.2p2/sftp-server.c
--- openssh-7.2p2.orig/sftp-server.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/sftp-server.c 2016-07-18 13:34:29.131267241 +0300
@@ -1162,7 +1162,7 @@
     }
     debug3("request %u: realpath", id);
     verbose("realpath "%s"", path);
--- openssh-7.2p2.orig/sftp-server.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/sftp-server.c 2016-07-18 13:34:29.131267241 +0300
@@ -1162,7 +1162,7 @@
     }
     debug3("request %u: realpath", id);
     verbose("realpath "%s"", path);
-    if (realpath(path, resolvedname) == NULL) {
+    if (ssh_realpath(path, resolvedname) == NULL) {
         send_status(id, errno_to_portable(errno));
     } else {
         Stat s;
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arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$pkgreal-$pkgver"
prepare() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor 
}

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test 
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete 
}

md5sums="0c5f5d3d93818566234578b27d667b35  Software-License-0.103004.tar.gz"

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pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.1
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="python2 flake8"
depends_dev=""
makedepends="python2-dev py-setuptools"
install=""
subpackages=""
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"

_builddir="$srcdir"/$_pkgname-$pkgver
prepare() {
  local i
  cd "$_builddir"
  for i in $source; do
case $i in
* .patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
esac
done
}

build() {
  cd "$_builddir"
  python2 setup.py build || return 1
}

package() {
cd "$_builddir"
python2 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="8fab17d27f0b417c44ea0bebf579d71b  flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7ba8d7b063493c9ed5af9985b2da77807be94bf9e65823b  flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e0f23797c1a356abc242e9f556b979b75e3a8bfe46  flake8-copyright-0.1.tar.gz"

--- a/expected/plluatest.out
+++ b/expected/plluatest.out
@@ -232,8 +232,8 @@
| name | data |
(1 row)

+SET client_min_messages = warning;
CREATE TABLE tree (id INT PRIMARY KEY, lchild INT, rchild INT);
-NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "tree_pkey" for table "tree"
CREATE FUNCTION filltree (t text, n int) RETURNS void AS $$
  local p = server.prepare("insert into " .. t .. " values($1, $2, $3),
  {"int4", "int4", "int4"})
$$
--- a/sql/plluatest.sql
+++ b/sql/plluatest.sql
@@ -160,6 +160,7 @@
SELECT * FROM get_rows('name');

+SET client_min_messages = warning;
CREATE TABLE tree (id INT PRIMARY KEY, lchild INT, rchild INT);
CREATE FUNCTION filltree (t text, n int) RETURNS void AS $$
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pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
"

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
    cd "$_builddir"
    update_config_sub || return 1
}
build() {
    cd "$_builddir"
    ./configure \ 
    --build=$CBUILD \ 
    --host=$CHOST \ 
    --prefix=/usr \ 
    || return 1
    make || return 1
}
package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
}
md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_buildmdir="$srcdir/$_pkgreal-$pkgver"

prepare() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make & & make test || return 1
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir" -name perllocal.pod -o -name .packlist -delete
}

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sha256sums="c47d460e2bd0d8d049f6ff4a0f161957e289e8de45af5fc79e851e2e855e06 BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e44351b49415407354da96b17771819b5e6e85529faa41ddd85575301579437f7700276ccee2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
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1.899 nss-pem 1.0.3 5.el7_6.1

1.900 python2-dateutil 2.6.1 1.el7ost

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1.901 util-linux 2.29.2-1+deb9u1.debian

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  1992-1997 Michael K. Johnson, johnsonm@redhat.com
      2003, 2004, 2005, 2008 Theodore Ts'o <tytso@mit.edu>
  1994 Kevin E. Martin (martin@cs.unc.edu)
  1994 Salvatore Valente <svalente@mit.edu>
  1994,1996 Alessandro Rubini (rubini@ipvvis.unipv.it)
  1994-2005 Jeff Tranter (tranter@pobox.com)
  1995, 1999, 2000 Andries E. Brouwer <aeb@cwi.nl>
  1997-2005 Frodo Looijaard <frodo@frodo.looijaard.name>
  1998 Danek Duvall <duvall@alumni.princeton.edu>
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  2008 James Youngman <jay@gnu.org>
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  2009 Mikhail Gusarov <dottedmag@dottedmag.net>
  2010, 2011, 2012 Davidlohr Bueso <dave@gnu.org>
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1.908 gobject-introspection 1.56.1 1.el7

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WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Open Source Used In Cisco VIM 3.4.312363
Open Source Used In Cisco VIM 3.4.312373
V# New ports collection makefile for: python25

V# Date created: 3 July 2003

V# Whom: Hye-Shik Chang <perky@FreeBSD.org>

Open Source Used in Cisco VIM 3.4.312390
tp399
a(g6
Vpython
p400
tp401
a(g6
V
p402
a(g6
Vipv6
p403
tp404
a(g6
Vu000a
p405
a(g100
VMASTER_SITES
p406
tp407
a(g353
V=
tp408
a(g6
V
p409
a(g138
V${}
p410
tp411
a(g100
VPYTHON_MASTER_SITES
p412
tp413
a(g138
V}
tp414
a(g6
Vu000a
p415
a(g100
VMASTER_SITE_SUBDIR
p416
tp417
a(g353
V=
tp418
a(g6
V
p501
tp502
a(g353
V=
tp503
a(g6
V
tp504
a(g6
V--build
p505
tp506
a(g353
V=
tp507
a(g138
V$\}
p508
tp509
a(g100
VMACHINE_ARCH
p510
tp511
a(g138
V\}
tp512
a(g6
V-portbld-freebsd
p513
tp514
a(g138
V$\}
p515
tp516
a(g100
VOSREL
p517
tp518
a(g138
V\}
tp519
a(g6
V\w000a
p520
a(g100
VCONFIGURE_SCRIPT
p521
tp522
a(g353
V=
tp523
a(g6
V
tp524
a(g6
V../configure
p525
 tp526
a(g6
V
tp527
a(g24
V# must be relative
VCONFIGURE_ENV
p530
 tp531
a(g353
V=
tp532
a(g6
V
tp533
a(g100
VOPT
p534
 tp535
a(g353
V=
tp536
a(g255
V"${CFLAGS}"
a(g255
V"echo freebsd"
p543
tp544
a(g6
Vu000a
tp545
a(g100
VMAKE_ENV
p546
tp547
a(g353
V=
tp548
a(g6
V
tp549
a(g100
VVPATH
p550
tp551
a(g353
V=
tp552
a(g255
V"${PYTHON_WRKsrc}"
p553
tp554
a(g6
Vu000a
tp555
a(g100
VINsALLS_SHLIB
p556
tp557
a(g353
V=
tp558
a(g6
V
tp559
a(g6
Vyes
p560
tp561
a(g6
Vu000a
tp562
at(g100
VINSTALL_TARGET
p563
tp564
at(g353
V=
tp565
at(g6
V
tp566
at(g6
Valtinstall
p567
tp568
at(g6
V\n000a
tp569
at(g100
VMAN1
p570
tp571
at(g353
V=
tp572
at(g6
V
p573
tp574
at(g138
VS$

p575
tp576
at(g100
VPYTHON_VERSION
p577
tp578
at(g138
V$

p579
at(g6
V.1
p580
tp581
at(g6
V\n000a\n000a
p582
tp583
at(g100
VUSE_PYTHON
p584
tp585
atg353
V=
tp586
atg6
V
tp587
atg6
Vyes
p588
tp589
atg6
V\u000a
atg100
VPYTHON_VERSION
p591
tp592
atg353
V=
tp593
atg6
V
tp594
atg6
Vpython2.5
p595
tp596
atg6
V\u000a
atg100
VPYTHON_NO_DEPENDS
p598
tp599
atg353
V=
tp600
atg6
V
tp601
atg6
Vyes
p602
tp603
atg6

Open Source Used In Cisco VIM 3.4.312400
V\u000a
p604
p605
a(g100
VSHARED_WRKSRC
p606
p607
a(g353
V=
V
V
a(g6
V
a(g138
V$
V
p610
V
V/portbld.shared
p615
V
a(g6
V
V
p617
V
V
V
a(g100
VPLIST
p618
p619
a(g353
V=
V
a(g6
V
V
p621
V
V
a(g138
V$
V
p623
V
V
a(g100
VWRKDIR
Open Source Used In Cisco VIM 3.4.312402

V/PLIST
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Open Source Used In Cisco VIM 3.4.312404
Open Source Used In Cisco VIM 3.4.312405

p687
tp688
a(g100
VPYTHON_VERSION
p689
tp690
a(g138
V)
tp691
a(g6
V\u0000a
tp692
a(g100
VTOOLS\n
DIR
p693
tp694
a(g353
V=
tp695
a(g6
V
tp696
a(g138
V${}
p697
tp698
a(g100
VPREFIX
p699
tp700
a(g138
V)
tp701
a(g6
V/share/
p702
tp703
a(g138
V${}
p704
tp705
a(g100
VPYTHON\n_VERSION
p706
tp707
a(g138
V)
tp708
Open Source Used In Cisco VIM 3.4.312407

Vpython-config
Vpython-shared-config
VBINLINKS_SUB
s,smtpd,smtpd${PYTHON_VER},'
p750
p751
a(g6
V
p752
p753
a(g6
V-e
p754
p755
a(g6
V
p756
a(g281
V's,(idle|pydoc|python-shared|python),\u005c1${PYTHON_VER},'

p757
p758
a(g6
V\u000a\u000a
p759
tp760
a(g100
VOPTIONS
p761
tp762
a(g353
V=
tp763
a(g6
V
p764
a(g6
VTHREADS
p765
tp766
a(g6
V
p767
a(g255
V"Enable thread support"

p768
tp769
a(g6
V
p770
a(g6
Von
Use a larger thread stack
V"Use UCS4 for unicode support"

V"Use python's internal malloc"
Enable IPv6 support

Enable floating point exception handling
Voff
p836
tp837
a(g6
V\u0000a\u0000a
p838
tp839
a(g27
V.include <bsd.port.pre.mk>\u0000a
p840
tp841
a(g6
V\u0000a
.tp842
a(g27
V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\u0000a
p843
tp844
a(g6
V
tp845
a(g100
VMLINKS
p846
tp847
a(g353
V=
tp848
a(g6
V
p849
tp850
a(g138
V${
 p851
tp852
a(g100
VPYTHON_VERSION
p853
tp854
a(g138
V}
tp855
a(g6
V.1
p856
tp857
a(g6

V
p878
ta(g100
VIF_DEFAULT
p879
tp880
ta(g353
V=
tp881
ta(g255
V" @comment "
p882
tp883
at(g6
V\u0000a
tp884
at(g27
V.endif\u0000a
p885
atp886
at(g6
V\u0000a
tp887
at(g24
V# workaround for a bug in base curses.h\u0000a
p888
atp889
at(g6
V
tp890
at(g6
VCFLAGS+
p891
tp892
at(g353
V=
tp893
at(g6
V
tp894
at(g6
V-D__wchar_t
p895
tp896
at(g353
V=
tp897
at(g6
Vwchar_t
p898
tp899
a(g6
V\u000a\u000a
p900
tp901
a(g27
V.if !defined(WITHOUT_THREADS)\u000a
p902
tp903
a(g6
V
tp904
a(g6
VCONFIGURE_ARGS+
p905
tp906
a(g353
V=
tp907
a(g6
V
tp908
a(g6
V--with-threads
p909
tp910
a(g6
V\u000a
tp911
a(g6
VCFLAGS+
p912
tp913
a(g353
V=
tp914
a(g6
V
p915
tp916
a(g138
V${
p917
tp918
a(g100
VPTHREAD_CFLAGS

---

Open Source Used In Cisco VIM 3.4.312415
VCFLAGS+=

p940
tp941
atg353
V=
tp942
atg6
V
p943
tp944
atg6

V-DTHREAD_STACK_SIZE

p945
tp946
atg353
V=
tp947
atg6
V0x100000
p948
tp949
atg6
V\u000a
p950
atg27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p951
tp952
atg6
V
tp953
atg6

VCONFIGURE_ENV+=

p954
tp955
atg353
V=
tp956
atg6
V
p957
tp958
atg100

VLDFLAGS

p959
tp960
atg353
V=
tp961
a\g255
V"$\{PTHREAD_LIBS\} $\{LDFLAGS\}"
p962
tp963
a\g6
V\u000a
tp964
a\g27
V.else\u000a
p965
tp966
a\g6
V
tp967
a\g6
VCONFIGURE_ARGS+
p968
tp969
a\g353
V=
tp970
a\g6
V
tp971
a\g6
V--without-threads
p972
tp973
a\g6
V\u000a
tp974
a\g27
V.if defined(LDFLAGS)\u000a
p975
tp976
a\g6
V
tp977
a\g6
VCONFIGURE_ENV+
p978
tp979
a\g353
V=
tp980
a\g6
V
VLDFLAGS
V="${LDFLAGS}"
V--enable-unicode

V=tp1004

V=u000a

tp1007

V.endif

V.ucsc4

V=tp1005

V=tp1006

V.endif

V.if defined(WITHOUT_PYMALLOC)

V=tp1011

V=tp1012

V=tp1013

V=VCONFIGURE_ARGS+

V=tp1014

V=tp1015

V=tp1016

V=

V=tp1017

V=tp1018

V=V--without-pymalloc

V=tp1019

V=tp1020

V=tp1021

V=endif

V=endif
tp1023
a(g6
V\u0000a
tp1024
a(g27
V.if ${ARCH} == i386\u0000a
p1025
tp1026
a(g6
V
tp1027
a(g6
VPLIST_SUB+
p1028
tp1029
a(g353
V=
tp1030
a(g6
V
tp1031
a(g100
VX86_ONLY
p1032
tp1033
a(g353
V=
tp1034
a(g255
V"

p1035
tp1036
a(g6
V\u0000a
tp1037
a(g27
V.else\u0000a
p1038
tp1039
a(g6
V
tp1040
a(g6
VPLIST_SUB+
p1041
tp1042
a(g353
V=
tp1043
a@g6
V
tp1044
a@g100
VX86_ONLY
p1045
tp1046
a@g353
V=
tp1047
a@g255
V"@comment "
p1048
tp1049
a@g6
V\u000a
tp1050
a@g27
V.endif\u000a
p1051
tp1052
a@g6
V
tp1053
a@g27
V.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\u000a
p1054
tp1055
a@g6
V
tp1056
a@g6
VPLIST_SUB+
p1057
tp1058
a@g353
V=
tp1059
a@g6
V
p1060
tp1061
a@g100
V32BIT_ONLY
p1062
tp1063
a@g353
V=
tp1064
atg255
V"@comment "
p1065
tp1066
atg6
Vu000a
tp1067
atg27
V.else"u000a
p1068
tp1069
atg6
V
tp1070
atg6
VPLIST_SUB+
p1071
tp1072
atg353
V=
tp1073
atg6
V
p1074
tp1075
atg100
V32BIT_ONLY
p1076
tp1077
atg353
V=
tp1078
atg255
V"
p1079
tp1080
atg6
Vu000a
tp1081
atg27
V.endif\u000a
p1082
tp1083
atg6
V
tp1084
V if ${ARCH} == sparc64

V if !exists(/usr/bin/ypcat) # the world with NO_NIS

V-DPYTHON_DEFAULT_RECURSION_LIMIT
p1105
tp1106
a(g353
V=
tp1107
a(g6
V
tp1108
a(g100
VNO_NIS
p1109
tp1110
a(g353
V=
tp1111
a(g255
V"@comment 

p1112
tp1113
a(g6
\u000a
tp1114
a(g27
V.else\u000a
p1115
tp1116
a(g6
V
tp1117
a(g6
VPLIST_SUB+
p1118
tp1119
a(g353
V=
tp1120
a(g6
V
tp1121
a(g100
VNO_NIS
p1122
tp1123
a(g353
V=
tp1124
a(g255
V"
if !defined(WITHOUT_IPV6)

VCONFIGURE_ARGS+

V--enable-ipv6

V.CONFIGURE_ARGS+

V.else

V.CONFIGURE_ARGS+

V.
V=
tp1146
at(g6
V
tp1147
at(g6
V--disable-ipv6
p1148
tp1149
at(g6
V
at(g6
V
at(g6
V--disable-ipv6
p1148
tp1149
at(g6
V
at(g6
V
V
at(g6
V
at(g6
V
at(g6
V--disable-ipv6
p1148
tp1149
at(g6
V
at(g6
V
at(g6
V--disable-ipv6
p1148
tp1149
at(g6
V
at(g6
V
at(g6
V--disable-ipv6
p1148
tp1149
at(g6
V
at(g6
V
at(g6
V--disable-ipv6
p1148
V\u000a
a(g27
V.if ${OSVERSION} >= 700000\u000a
p1167
a(g6
V
p1169
a(g100
VPLATFORMS
p1170
tp1171
a(g353
V=
tp1172
a(g6
Vplat-freebsd4
p1173
tp1174
a(g6
V
p1175
a(g6
Vplat-freebsd5
p1176
tp1177
a(g6
V
p1178
a(g6
Vplat-freebsd6
p1179
tp1180
a(g6
V\u000a
p1181
a(g27
V.elif ${OSVERSION} >= 600000\u000a
p1182
tp1183
a(g6
V
p1184
a(g100
VPLATFORMS
p1185
tp1186
Open Source Used In Cisco VIM 3.4.312430

tp1207
a(g6
V
tp1208
a(g6
Vplat-freebsd7
p1209
tp1210
a(g6
V\u000a
p1211
a(g27
V.endif\u000a
p1212
tp1213
a(g6
V\u000a
p1214
a(g6
Vpre-patch:
p1215
tp1216
a(g6
V\u000a
p1217
tp1218
a(g138
V${
 p1219
tp1220
a(g100
VMKDIR
p1221
tp1222
a(g138
V}
tp1223
a(g6
V
tp1224
a(g138
V${
p1225
tp1226
a(g100
VWRKSRC
p1227
tp1228
Open Source Used In Cisco VIM 3.4.312433
V)
ap1314
V
ap1315
V-e
ap1316
ap1317
V
ap1318
V'
S,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'ap1319
ap1320
V
ap1321
V\u005c
ap1322
ap1323
V
ap1324
ap1325
ap1326
ap1327
V$}
ap1328
ap1329
ap1330
V'}
ap1331
ap1332
V/Lib/smtpd.py
ap1333
ap1334
Open Source Used In Cisco VIM 3.4.312436
V
p1356
tp1357
atg281
V's /usr/doc/python-docs-.${PREFIX}/share/doc/python,g'
p1358
tp1359
atg6
V
tp1360
atg262
V\u000c\u000a
p1361
tp1362
atg6
V
p1363
tp1364
atg138
VS$

p1365
tp1366
atg100
VPATCH_WRKSRC
p1367
tp1368
atg138
V$

p1369
atg6
V/Lib/pydoc.py
p1370
tp1371
atg6
V\u0000
p1372
tp1373
atg138
VS$

p1374
tp1375
atg100
VREINPLACE_CMD
p1376
tp1377
atg138
V$

p1378
Open Source Used In Cisco VIM 3.4.3.12440
a(g281
Vs|\u005c(INSTALL_SCRIPT.\u005c|port \u005c|p1445
tp1446
a(g6
V
tp1447
a(g262
V\u005c\u000a
p1448
tp1449
a(g6
V
p1450
tp1451
a(g138
VS{
p1452
tp1453
a(g100
VPATCH_WRKSRC
p1454
tp1455
a(g138
V}
tp1456
a(g6
V/Makefile.pre.in
p1457
tp1458
a(g6
V\u000a\u000a
p1459
tp1460
a(g138
VS{
p1461
tp1462
a(g100
VSED
p1463
tp1464
a(g138
V}
tp1465
a(g6
V
tp1466
Open Source Used In Cisco VIM 3.4.312444
VVRKDIR
p1530
tp1531
at(g138
V}
 tp1532
at(g6
V/
 tp1533
at(g138
VS{
 p1534
tp1535
at(g100
VPYTHON_VERSION
p1536
tp1537
at(g212
V:
 tp1538
at(g100
VS
 tp1539
at(g212
V/thon/thon-shared/
 p1540
tp1541
at(g138
V}
 tp1542
at(g6
V-config
 p1543
tp1544
at(g6
V\u000a\u000a
 p1545
tp1546
at(g27
V,if defined(WITH_FPECTL) && ${ARCH} == i386
 p1547
tp1548
at(g6
V
 tp1549
at(g138
VS{
 p1550
V's,^\u005cBLDLIBRARY=\u005c.*$$,\u005c1-L. -lpython$$(VERSION),'p
V\u005c\u000a
V's,^\u005cCFLAGSFORSHARED=\u005c.*$$,\u005c1$$$$(CCSHARED),'
p
Open Source Used In Cisco VIM 3.4.312454
VSHARED_WRKSRCP

V

Vpre-build:

Vcd

V

V

V
Open Source Used In Cisco VIM 3.4.312457
V
tp1804
a(g6
V-f
p1805
tp1806
a(g6
V
tp1807
a(g6
Vlib
p1808
tp1809
a(g138
VS{
p1810
tp1811
a(g100
VPYTHON_VERSION
p1812
tp1813
a(g138
V}
tp1814
a(g6
V.so
p1815
tp1816
a(g6
V
tp1817
a(g6
Vlib
p1818
tp1819
a(g138
VS{
p1820
tp1821
a(g100
VPYTHON_VERSION
p1822
tp1823
a(g138
V}
tp1824
a(g6
V.so.1;
for platform in ${PLATFORMS}:

V.mk
V
V
tp1867
a(g100
VPYTHONPREFIX_LIBDIR
p1868
tp1869
a(g138
V}
tp1870
a(g6
V/
tp1871
a(g138
V$

p1872
tp1873
a(g100
Vplatform
p1874
tp1875
a(g138
V}
tp1876
a(g6
V\u000a
p1877
a(g27
V.for file in IN.py regen\u000a
p1878
tp1879
a(g6
V
p1880
a(g138
V$

p1881
tp1882
a(g100
VINSTALL_DATA
p1883
tp1884
a(g138
V}
tp1885
a(g6
V
p1886
a(g138
V$

Open Source Used In Cisco VIM 3.4.312461
if openssl 0.9.8 is detected, _sha{256,512} module won't be installed
Open Source Used In Cisco VIM 3.4.312470

post-install:

# install config providers

V

VINSTALL_SCRIPT

VWRKDIR
Open Source Used In Cisco VIM 3.4.312472

VINSTALL_SCRIPT

VWRKDIR

VPYTHON_VERSION

V-config
tp2137
a(g100
VSHARED_WRKSRCP
p2138
tp2139
a(g138
V
} tp2140
a(g6
V/lib
p2141
tp2142
a(g138
V${}
p2143
tp2144
a(g100
VPYTHON_VERSION
p2145
tp2146
a(g138
V
} tp2147
a(g6
V.so.1
p2148
tp2149
a(g6
V
tp2150
a(g262
V\u005c\u000a
p2151
tp2152
a(g6
V
p2153
tp2154
a(g138
V${}
p2155
tp2156
a(g100
VPREFIX
p2157
tp2158
a(g138
V)
Open Source Used In Cisco VIM 3.4.312478

```plaintext
a(g138
V$\{
p2225
tp2226
a(g100
VPYTHON_VERSION
p2227
tp2228
a(g138
V}
tp2229
a(g6
V.so
p2230
tp2231
a(g6
V
tp2232
a(g138
V$\{
p2233
tp2234
a(g100
VPYTHONPREFIX_LIBDIR
p2235
tp2236
a(g138
V}
tp2237
a(g6
V/config
p2238
tp2239
a(g6
V\u000a
p2240
tp2241
a(g138
V$\{
p2242
tp2243
a(g100
VINSTALL_PROGRAM
p2244
tp2245
a(g138
V}
tp2246
```
Open Source Used In Cisco VIM 3.4.312480
Open Source Used In Cisco VIM 3.4.312484
if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}:

do

V

VBIN_SCRIPTS

Open Source Used In Cisco VIM 3.4.312485
Open Source Used In Cisco VIM 3.4.312491
Open Source Used In Cisco VIM 3.4.312496
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Cisco IOS Software 15.1(3)T

Release Notes

This document describes revisions and enhancements in this Cisco IOS Software release. This release is based on the Cisco IOS Software 15.0(2)T code base.

This product is intended for use with the Cisco Catalyst 4500 Series, Cisco Catalyst 6500 Series, and Cisco Nexus 5000 Series switches.

This release includes the following enhancements:

- Enhancements to the Fabric Services module that improve the manageability and troubleshooting capabilities of the module.
- Enhancements to the Fabric Analyzer module that improve the visibility of traffic flows and the ability to identify and troubleshoot issues.
- Enhancements to the Fabric Configuration module that simplify the configuration and management of fabric services.
- Enhancements to the Fabric Monitoring module that improve the ability to monitor and troubleshoot fabric services.
- Enhancements to the Fabric Security module that improve the security of fabric services.
- Enhancements to the Fabric Performance module that improve the ability to monitor and troubleshoot fabric performance.
- Enhancements to the Fabric Troubleshooting module that improve the ability to identify and troubleshoot issues related to fabric services.
- Enhancements to the Fabric Performance Analysis module that improve the ability to analyze and troubleshoot fabric performance.
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1.920 p11-kit 0.23.5 3.el7

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1.921 zlib 1.2.7 18.el7

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1.922 libxml 2.9.1 6.el7_2.3
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1.923 mdi-common 1.4.57.0 4.el7ost
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1.924 kibana 6.4.2
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export { checkLicense } from './check_license';

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const getStartBasicPath = (acknowledge) => `/_xpack/license/start_basic${ acknowledge ? '?acknowledge=true' : ''};

export async function startBasic(req, xpackInfo) {
  const { acknowledge } = req.query;
  const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
  const options = {
    method: 'POST',
    path: getStartBasicPath(acknowledge)
  };
  try {
    const response = await callWithRequest(req, 'transport.request', options);
    /*eslint camelcase: 0*/
    const { basic_was_started } = response;
    if (basic_was_started) {
      await xpackInfo.refreshNow();
    }
    return response;
  } catch (error) {
    return error.body;
  }

@import (reference) '~ui/styles/variables/colors';

.licenseFeature {
  flex-grow: 1;
  background: @globalColorLightestGray;
  min-height: 100vh;
}
export * from './util';

export function checkLicense(xpackLicenseInfo) {
    const pluginName = 'Index Management';

    // If, for some reason, we cannot get the license information
    // from Elasticsearch, assume worst case and disable
    if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
        return {
            isAvailable: false,
            showLinks: true,
            enableLinks: false,
            message: 'You cannot use ${pluginName} because license information is not available at this time.'
        };
    }

    const VALID_LICENSE_MODES = ['trial', 'basic', 'standard', 'gold', 'platinum'];

    const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
const isLicenseActive = xpackLicenseInfo.license.isActive();
const licenseType = xpackLicenseInfo.license.getType();

// License is not valid
if (!isLicenseModeValid) {
  return {
    isAvailable: false,
    showLinks: false,
    message: `Your ${licenseType} license does not support ${pluginName}. Please upgrade your license.``
  };
}

// License is valid but not active
if (!isLicenseActive) {
  return {
    isAvailable: false,
    showLinks: true,
    enableLinks: false,
    message: `You cannot use ${pluginName} because your ${licenseType} license has expired.``
  };
}

// License is valid and active
return {
  isAvailable: true,
  showLinks: true,
  enableLinks: true
};

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import { write, read } from '../lib';

export const UpdateLicenseFileTask = {
  description: 'Updating LICENSE.txt file',
  async run(config, log, build) {
    if (build.isOss()) {
      log.info('Copying Apache 2.0 license to LICENSE.txt');
      await write(
        build.resolvePath('LICENSE.txt'),
        await read(config.resolveFromRepo('licenses/APACHE-LICENSE-2.0.txt'))
      );
    } else {
      log.info('Copying Elastic license to LICENSE.txt');
      await write(
        build.resolvePath('LICENSE.txt'),
        await read(config.resolveFromRepo('licenses/ELASTIC-LICENSE.txt'))
      );
    }
  }
};

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export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Watcher UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      isAvailable: false,
      showLinks: true,
      enableLinks: false,
      message: 'You cannot use Watcher because license information is not available at this time.'
    };
  }

  const VALID_LICENSE_MODES = [
    'trial',
    'standard',
    'gold',
    'platinum'
  ];

  const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
  const isLicenseActive = xpackLicenseInfo.license.isActive();
const licenseType = xpackLicenseInfo.license.getType();

// License is not valid
if (!isLicenseModeValid) {
  return {
    isAvailable: false,
    showLinks: false,
    message: `Your ${licenseType} license does not support Watcher. Please upgrade your license.`
  };
}

// License is valid but not active
if (!isLicenseActive) {
  return {
    isAvailable: false,
    showLinks: true,
    enableLinks: false,
    message: `You cannot use Watcher because your ${licenseType} license has expired.`
  };
}

// License is valid and active
return {
  isAvailable: true,
  showLinks: true,
  enableLinks: true
};

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export { PLUGIN } from './plugin';
export { BASE_PATH } from './base_path';
<kbn-management-app section="elasticsearch/license_management">
  <div id="licenseReactRoot" class="licenseFeature"></div>
</kbn-management-app>

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import { Provider } from 'react-redux';
import { licenseManagementStore } from '../public/store/store';
import React from 'react';
import { mount } from 'enzyme';

const highExpirationMillis = new Date('October 13, 2099 00:00:00Z').getTime();

export const createMockLicense = (type, expiryDateInMillis = highExpirationMillis) => {
  return {
    type,
    expiryDateInMillis,
    isActive: new Date().getTime() < expiryDateInMillis
  };
};

export const getComponent = (initialState, Component) => {
  const store = licenseManagementStore(initialState);
  return mount(<Provider store={store}><Component /></Provider>);
};

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import { mirrorPluginStatus } from '../../../../../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
  const xpackMainPlugin = server.plugins.xpack_main;
  const indexManagementPlugin = server.plugins.index_management;
  mirrorPluginStatus(xpackMainPlugin, indexManagementPlugin);

  xpackMainPlugin.status.once('green', () => {
    // Register a function that is called whenever the xpack info changes,
    // to re-compute the license check results for this plugin
    xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
  });
}

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import { resolve } from 'path';
import { readFile } from 'fs';
import { fromNode as fcb } from 'bluebird';
import glob from 'glob';

export async function getBundledNotices(packageDirectory) {
    const pattern = resolve(packageDirectory, '*{LICENSE,NOTICE}*');
    const paths = await fcb(cb => glob(pattern, cb));
    return Promise.all(
        paths.map(async path => ({
            path,
            text: await fcb(cb => readFile(path, 'utf8', cb)),
        })))
    );
}
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import { once } from 'lodash';
import { wrapCustomError } from '../error_wrappers';
import { PLUGIN } from '../../../common/constants';

export const licensePreRoutingFactory = once((server) => {
    const xpackMainPlugin = server.plugins.xpack_main;
    // License checking and enable/disable logic
    function licensePreRouting(request, reply) {
        const licenseCheckResults = xpackMainPlugin.info.feature(PLUGIN.ID).getLicenseCheckResults();
        if (!licenseCheckResults.isAvailable) {
            const error = new Error(licenseCheckResults.message);
            reply.send(wrapCustomError(error));
        }
    }
    server.webhook.register('elastic.metrics.prometheus', licensePreRouting);
    return licensePreRoutingFactory;
});
const statusCode = 403;
const wrappedError = wrapCustomError(error, statusCode);
reply(wrappedError);
} else {
reply();
}

return licensePreRouting;
});
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const getLicensePath = (acknowledge) => `/_xpack/license${ acknowledge ? '?acknowledge=true' : ''}`;

export async function putLicense(req, xpackInfo) {
const { acknowledge } = req.query;
const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
const options = {
  method: 'POST',
  path: getLicensePath(acknowledge),
  body: req.payload
};
try {
  const response = await callWithRequest(req, 'transport.request', options);
  const { acknowledged, license_status: licenseStatus } = response;
  if (acknowledged && licenseStatus === 'valid') {
    await xpackInfo.refreshNow();
  }
  return response;
} catch (error) {
  return error.body;
}
} /*
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import './management_section';
import './register_route';
import './styles/main.less';
/*
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import { resolve } from 'path';
import { PLUGIN } from './common/constants';
import { registerLicenseRoute, registerStartTrialRoutes, registerStartBasicRoute } from
"./server/routes/api/license/";

export function licenseManagement(kibana) {
  return new kibana.Plugin(
    id: PLUGIN.ID,
    publicDir: resolve(__dirname, 'public'),
    require: ['kibana', 'elasticsearch'],
    uiExports: {
      managementSections: [
        'plugins/license_management',
      ],
    },
    init: (server) => {
      registerLicenseRoute(server);
      registerStartTrialRoutes(server);
      registerStartBasicRoute(server);
    }
  );
}
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import { mirrorPluginStatus } from '../../../../../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
  const xpackMainPlugin = server.plugins.xpack_main;
  const grokdebuggerPlugin = server.plugins[PLUGIN.ID];

  mirrorPluginStatus(xpackMainPlugin, grokdebuggerPlugin);
  xpackMainPlugin.status.once('green', () => {
    // Register a function that is called whenever the xpack info changes,
    // to re-compute the license check results for this plugin
    xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
  });
}
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import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is undefined', () => {
        beforeEach(() => mockLicenseInfo = undefined);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });

        it('should set showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
        });

    });

});
describe('license information is not available', () => {
  beforeEach(() => mockLicenseInfo.isAvailable = () => false);

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));
    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));
      it('should set isAvailable to true', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
      });
      it('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
      });
      it('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
      });
    });
  });
});

Open Source Used In Cisco VIM 3.4.312644
describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('& license is basic', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });
});

describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should not set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
  });
});
describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it ('should set showLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

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*/
import Boom from 'boom';

/**
 * Wraps ES errors into a Boom error response and returns it
 * This also handles the permissions issue gracefully
 *
 * @param err Object ES error
 * @return Object Boom error response
 */
export function wrapEsError(err) {
  const statusCode = err.statusCode;
  if (statusCode === 403) {
    return Boom.forbidden('Insufficient user permissions for adding a license.');
  }
  return Boom.boomify(err, err.statusCode);
}

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*/
import { management } from 'ui/management';
import { BASE_PATH } from '../common/constants';
management.getSection('elasticsearch').register('license_management', {
    visible: true,
    display: 'License Management',
    order: 4,
    url: `#${BASE_PATH}home`});

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 */

import { StartTrial } from '../public/sections/license_dashboard/start_trial';
import { createMockLicense, getComponent } from './util';

describe('StartTrial component when trial is allowed', () => {
    test('display for basic license', () => {
        const rendered = getComponent(
            {
                license: createMockLicense('basic'),
                trialStatus: { canStartTrial: true }
            },
            StartTrial
        );
        expect(rendered.html()).toMatchSnapshot();
    });

    test('should display for gold license', () => {
        const rendered = getComponent(
            {
                license: createMockLicense('gold'),
                trialStatus: { canStartTrial: true }
            },
            StartTrial
        );
        expect(rendered.html()).toMatchSnapshot();
    });

    test('should not display for trial license', () => {
        const rendered = getComponent(
            {
                license: createMockLicense('trial'),
                trialStatus: { canStartTrial: true }
            },
            StartTrial
        );
        expect(rendered.html()).toBeNull();
    });
test('should not display for active platinum license', () => {
    const rendered = getComponent(
        {
            license: createMockLicense('platinum'),
            trialStatus: { canStartTrial: true }
        },
        StartTrial
    );
    expect(rendered.html()).toBeNull();
});

test('should display for expired platinum license', () => {
    const rendered = getComponent(
        {
            license: createMockLicense('platinum', 0),
            trialStatus: { canStartTrial: true }
        },
        StartTrial
    );
    expect(rendered.html()).toMatchSnapshot();
});

});

describe('StartTrial component when trial is not available', () => {
    test('should not display for basic license', () => {
        const rendered = getComponent(
            {
                license: createMockLicense('basic'),
                trialStatus: { canStartTrial: false }
            },
            StartTrial
        );
        expect(rendered.html()).toBeNull();
    });

    test('should not display for gold license', () => {
        const rendered = getComponent(
            {
                license: createMockLicense('gold'),
                trialStatus: { canStartTrial: false }
            },
            StartTrial
        );
        expect(rendered.html()).toBeNull();
    });

    test('should not display for platinum license', () => {
        const rendered = getComponent(
            {
                license: createMockLicense('platinum'),
                trialStatus: { canStartTrial: false }
            },
            StartTrial
        );
        expect(rendered.html()).toBeNull();
    });
});
test('should not display for trial license', () => {
    const rendered = getComponent(
        {
            license: createMockLicense('gold'),
            trialStatus: { canStartTrial: false }
        },
        StartTrial
    );
    expect(rendered.html()).toBeNull();
});

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 */

import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is undefined', () => {
        beforeEach(() => mockLicenseInfo = undefined);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });

        it('should set showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.be('License information is undefined.');
        });
    });

    describe('license information is valid', () => {
        beforeEach(() => mockLicenseInfo = {
            license: createMockLicense('gold'),
            trialStatus: { canStartTrial: true }
        });

        it('should set isAvailable to true', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
        });

        it('should set showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
        });

        it('should set enableLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.be('License information is valid.');
        });
    });
});
describe('license information is not available', () => {
  beforeEach(() => mockLicenseInfo.isAvailable = () => false);

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));
  });

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to true', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
    });

    it('should set showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
    });

    it('should set enableLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
    });
  });
});
it('should not set a message', () => {  
    expect(checkLicense(mockLicenseInfo).message).to.be(undefined);  
});

describe('& license is expired', () => {  
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set isAvailable to false', () => {  
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);  
    });

    it ('should set showLinks to true', () => {  
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);  
    });

    it ('should set enableLinks to false', () => {  
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);  
    });

    it('should set a message', () => {  
        expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);  
    });
});

describe('& license is basic', () => {  
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

    describe('& license is active', () => {  
        beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

        it('should set isAvailable to true', () => {  
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);  
        });

        it ('should set showLinks to true', () => {  
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);  
        });

        it ('should set enableLinks to true', () => {  
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);  
        });

        it('should not set a message', () => {  
            expect(checkLicense(mockLicenseInfo).message).to.be(undefined);  
        });
    });
});
describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it ('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

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import expect from 'expect.js';
import { licensePreRoutingFactory } from '../license_pre_routing_factory';

describe('license_pre_routing_factory', () => {
  describe('#reportingFeaturePreRoutingFactory', () => {
    let mockServer;
    let mockLicenseCheckResults;

    beforeEach() => {
      mockServer = {
        plugins: {
          xpack_main: {
            info: {
              
```
feature: () => {
    getLicenseCheckResults: () => mockLicenseCheckResults
}
}
}
};

it('only instantiates one instance per server', () => {
    const firstInstance = licensePreRoutingFactory(mockServer);
    const secondInstance = licensePreRoutingFactory(mockServer);

    expect(firstInstance).to.be(secondInstance);
});

describe('isAvailable is false', () => {
    beforeEach(() => {
        mockLicenseCheckResults = {
            isAvailable: false
        };
    });

    it('replies with 403', (done) => {
        const licensePreRouting = licensePreRoutingFactory(mockServer);
        const stubRequest = {};
        licensePreRouting(stubRequest, (response) => {
            expect(response).to.be.an(Error);
            expect(response.isBoom).to.be(true);
            expect(response.output.statusCode).to.be(403);
            done();
        });
    });

    describe('isAvailable is true', () => {
        beforeEach(() => {
            mockLicenseCheckResults = {
                isAvailable: true
            };
        });

        it('replies with nothing', (done) => {
            const licensePreRouting = licensePreRoutingFactory(mockServer);
            const stubRequest = {};
            licensePreRouting(stubRequest, (response) => {
                expect(response).to.be(undefined);
                done();
            });
        });
    });
});
export function registerLicenseRoute(server) {
    const xpackInfo = server.plugins.xpack_main.info;
    server.route({
        path: '/api/license',
        method: 'PUT',
        handler: (request, reply) => {
            return putLicense(request, xpackInfo)
                .then(reply, e => reply(wrapEsError(e)));
        }
    });
} /*
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*/

import { createAction } from 'redux-actions';
import { startBasic } from '../../lib/es';
import { toastNotifications } from 'ui/notify';

export const startBasicLicenseStatus = createAction(
    'LICENSE_MANAGEMENT_START_BASIC_LICENSE_STATUS'
);

export const cancelStartBasicLicense = createAction(
    'LICENSE_MANAGEMENT_CANCEL_START_BASIC_LICENSE'
);

export const startBasicLicense = (currentLicenseType, ack) => async (dispatch,
    getState,
    { xPackInfo }
) => {
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    */
}
/*eslint camelcase: 0*/
const { acknowledged, basic_was_started, error_message, acknowledge } = await startBasic(ack);
if (acknowledged) {
  if (basic_was_started) {
    await xPackInfo.refresh();
    // reload necessary to get left nav to refresh with proper links
    window.location.reload();
  } else {
    return toastNotifications.addDanger(error_message);
  }
} else {
  //messages coming back in arrays
  const messages = Object.values(acknowledge).slice(1).map((item) => {
    return item[0];
  });
  const first = `Some functionality will be lost if you replace your
  ${currentLicenseType.toUpperCase()} license with a
  BASIC license. Review the list of features below.`;
  dispatch(startBasicLicenseStatus({
    acknowledge: true, messages: [ first, ...messages ]
  }));
}

export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Machine Learning UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      isAvailable: false,
      showLinks: true,
      enableLinks: false,
      message: 'You cannot use Machine Learning because license information is not available at this time.'
    };
  }
  const featureEnabled = xpackLicenseInfo.feature('ml').isEnabled();
  if (!featureEnabled) {
    return {
      isAvailable: false,
      showLinks: false,
      enableLinks: false,
message: 'Machine Learning is unavailable'}
};

const VALID_LICENSE_MODES = [
  'trial',
  'platinum'
];

const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
const isLicenseActive = xpackLicenseInfo.license.isActive();
const licenseType = xpackLicenseInfo.license.getType();

// License is not valid
if (!isLicenseModeValid) {
  return {
    isAvailable: false,
    showLinks: false,
    enableLinks: false,
    message: `Your ${licenseType} license does not support Machine Learning. Please upgrade your license.`
  }
}

// License is valid but not active
if (!isLicenseActive) {
  return {
    isAvailable: true,
    showLinks: true,
    enableLinks: true,
    hasExpired: true,
    message: `Your ${licenseType} Machine Learning license has expired.`
  }
}

// License is valid and active
return {
  isAvailable: true,
  showLinks: true,
  enableLinks: true,
  hasExpired: false,
};

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 */
import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is undefined', () => {
        beforeEach(() => mockLicenseInfo = undefined);

        it('should set enableLink to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
        });

        it('should set enableAPIRoute to false', () => {
            expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });

    describe('license information is not available', () => {
        beforeEach(() => mockLicenseInfo.isAvailable = () => false);

        it('should set enableLink to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
        });

        it('should set enableAPIRoute to false', () => {
            expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });

    describe('license information is available', () => {
        beforeEach(() => mockLicenseInfo = {
            isAvailable: () => true,
            license: {
                getType: () => 'foobar'
            }
        });

        it('should set enableLink to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
        });

        it('should set enableAPIRoute to false', () => {
            expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });
});

Open Source Used In Cisco VIM 3.4.312661
describe('license is active', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

  it('should set enableLink to true', () => {
    expect(checkLicense(mockLicenseInfo).enableLink).to.be(true);
  });

  it('should set enableAPIRoute to true', () => {
    expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(true);
  });

  it('should NOT set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
  });
});

describe('license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set enableLink to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
  });

  it('should set enableAPIRoute to false', () => {
    expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

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 * 
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 */
function licenses(grunt) {
  grunt.registerTask('licenses', 'Checks dependency licenses', async function () {
    const done = this.async();

    try {
      const dev = Boolean(grunt.option('dev'));

      assertLicensesValid(
        packages: await getInstalledPackages(
          directory: grunt.config.get('root'),
          licenseOverrides: LICENSE_OVERRIDES, dev
        ),
        validLicenses: LICENSE_WHITELIST
      );
      done();
    } catch (err) {
      grunt.fail.fatal(err);
      done(err);
    }
  });
}

export default function licenses(grunt) {
  grunt.registerTask('licenses', 'Checks dependency licenses', async function () {
    const done = this.async();

    try {
      const dev = Boolean(grunt.option('dev'));

      assertLicensesValid(
        packages: await getInstalledPackages(
          directory: grunt.config.get('root'),
          licenseOverrides: LICENSE_OVERRIDES, dev
        ),
        validLicenses: LICENSE_WHITELIST
      );
      done();
    } catch (err) {
      grunt.fail.fatal(err);
      done(err);
    }
  });
}
const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
const options = {
    method: 'GET',
    path: '/_xpack/license/trial_status'
};
try {
    const response = await callWithRequest(req, 'transport.request', options);
    const { eligible_to_start_trial } = response;
    return eligible_to_start_trial;
} catch (error) {
    return error.body;
}

export async function startTrial(req, xpackInfo) {
    const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
    const options = {
        method: 'POST',
        path: '/_xpack/license/start_trial?acknowledge=true'
    }; 
    try {
        /*eslint camelcase: 0*/
        const response = await callWithRequest(req, 'transport.request', options);
        const { trial_was_started } = response;
        if (trial_was_started) {
            await xpackInfo.refreshNow();
        }
        return response;
    } catch (error) {
        return error.body;
    }
}

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 */

import { createAction } from 'redux-actions';
import { addLicense } from '../actions/add_license';
import { BASE_PATH } from '../../../common/constants/base_path';
import { putLicense } from '../../lib/es';
import { addUploadErrorMessage } from './add_error_message';

export const uploadLicenseStatus = createAction('LICENSE_MANAGEMENT_UPLOAD_LICENSE_STATUS');

const genericUploadError = 'Error encountered uploading license:';

const dispatchFromResponse = async (response, dispatch, currentLicenseType, newLicenseType, { xPackInfo,
import axios from 'axios';

// other code...

kbnUrl ) => {
  const { error, acknowledged, license_status: licenseStatus, acknowledge } = response;
  if (error) {
    dispatch(uploadLicenseStatus({}));
    dispatch(addUploadErrorMessage('The supplied license is not valid for this product.'));
  } else if (licenseStatus === 'invalid') {
    dispatch(uploadLicenseStatus({}));
    dispatch(addUploadErrorMessage('The supplied license is not valid for this product.'));
  } else if (licenseStatus === 'expired') {
    dispatch(uploadLicenseStatus({}));
    dispatch(addUploadErrorMessage('The supplied license has expired.'));
  } else {
    await xPackInfo.refresh();
    dispatch(addLicense(xPackInfo.get('license')));
    dispatch(uploadLicenseStatus({}));
    kbnUrl.change(BASE_PATH);
    // reload necessary to get left nav to refresh with proper links
    window.location.reload();
  }
}

export const uploadLicense = (licenseString, currentLicenseType, acknowledge) => async (dispatch, getState, services) => {
  dispatch(uploadLicenseStatus({ applying: true }));
  try {
    const response = await putLicense(licenseString, acknowledge);
    await dispatchFromResponse(response, dispatch, currentLicenseType, newLicenseType, services);
  } catch (err) {
    dispatch(uploadLicenseStatus({}));
    return dispatch(addUploadErrorMessage('Unknown error.'));
  }
};
import React from 'react';

export default (props) => <div>{props.children}</div>;

export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Watcher UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      enableLink: false,
      enableAPIRoute: false,
      message: 'You cannot use the Grok Debugger because license information is not available at this time.'
    };
  }

  const isLicenseActive = xpackLicenseInfo.license.isActive();
  const licenseType = xpackLicenseInfo.license.getType();

  // License is not valid
  if (!isLicenseActive) {
    return {
      enableLink: false,
      enableAPIRoute: false,
      message: `You cannot use the Grok Debugger because your ${licenseType} license has expired.`
    };
  }

  // License is valid and active
  return {
    enableLink: true,
    enableAPIRoute: true
  };
}
import { writeFileSync } from 'fs';
import { resolve } from 'path';
import { getInstalledPackages } from '../src/dev/npm';
import { LICENSE_OVERRIDES } from '../src/dev/license_checker';

import {
isNull,
isUndefined
} from 'lodash';

const allDoubleQuoteRE = /\"/g;

function escapeValue(value) {
  if (isNull(value)) {
    return;
  }
  return `\`${value.replace(allDoubleQuoteRE, '``')}\``;
}

function formatCsvValues(fields, values) {
  return fields.map((field) => {
    const value = values[field];
    if (isNull(value) || isUndefined(value)) {
      return null;
    }
    return value.toString();
  });
}
export default function licensesCSVReport(grunt) {
    grunt.registerTask('licenses:csv_report', 'Report of 3rd party dependencies', async function () {
        const fields = ['name', 'version', 'url', 'license'];
        const done = this.async();

        try {
            const file = grunt.option('csv');
            const directory = grunt.option('directory');
            const dev = Boolean(grunt.option('dev'));

            const packages = await getInstalledPackages(
                directory: directory ? resolve(directory) : grunt.config.get('root'),
                licenseOverrides: LICENSE_OVERRIDES,
                dev
            );

            const csv = packages.map(pkg => {
                const data = {
                    name: pkg.name,
                    version: pkg.version,
                    url: pkg.repository || `https://www.npmjs.com/package/${pkg.name}`,
                    license: pkg.licenses.join(',')
                }

                return formatCsvValues(fields, data);
            }).join('
');

            if (file) {
                writeFileSync(file, `${fields.join(',')}
${csv}
`);
                grunt.log.writeln(`wrote to ${file}`);
            } else {
                grunt.log.writeln(csv);
                grunt.log.writeln('
specify --csv [filepath] to write the data to a specific file');
            }
        } catch (err) {
            grunt.fail.fatal(err);
            done(err);
        }
    });
}
import expect from 'expect.js';
import sinon from 'sinon';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', () => {

let mockLicenseInfo;
beforeEach(() => mockLicenseInfo = {});

describe('license information is undefined', () => {
  beforeEach(() => mockLicenseInfo = undefined);

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license information is not available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => false;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  it('should set isAvailable to true', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
  });

  it('should set showLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
  });

  it('should set enableLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});
describe('& ML is disabled in Elasticsearch', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'feature', sinon.stub().withArgs('ml').returns({ isEnabled: () => false }));
  });

  it('should set showLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
  });

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('& ML is enabled in Elasticsearch', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'feature', sinon.stub().withArgs('ml').returns({ isEnabled: () => true }));
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it('should set isAvailable to true', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
      });

      it('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
      });

      it('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
      });

      it('should not set a message', () => {

describe('license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to true', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license is basic', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

  describe('license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });

  describe('license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });
});
expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
});

it('should set showLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
});

it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});
});
});
});
});
*/

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*/

import expect from 'expect.js';
import Boom from 'boom';
import { licensePreRoutingFactory } from './license.pre_routing_factory';

describe('license.pre_routing_factory', () => {
    describe('#grokDebuggerFeaturePreRoutingFactory', () => {
        let mockServer;
        let mockLicenseCheckResults;

        beforeEach(() => {
            mockServer = {
                plugins: {
                    xpack_main: {
                        info: {
                            feature: () => {
                                getLicenseCheckResults: () => mockLicenseCheckResults
                            }
                        }
                    }
                }
            }
        });

        describe('isAvailable is false', () => {
            beforeEach(() => {
                mockLicenseCheckResults = {
                    isAvailable: false
                }
            });

            it('should set showLinks to false', () => {
                expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
            });

            it('should set a message', () => {
                expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
            });
        });
    });
});
describe('isAvailable is true', () => {
  beforeEach(() => {
    mockLicenseCheckResults = {
      isAvailable: true
    };
  });

  it ('replies with nothing', (done) => {
    const licensePreRouting = licensePreRoutingFactory(mockServer);
    const stubRequest = {};
    licensePreRouting(stubRequest, (response) => {
      expect(response).to.eql(Boom.forbidden());
      done();
    });
  });
});

//.kuiNotice {
  padding: 40px 60px 48px;
  margin: 20px;
  background-color: $noticeBackgroundColor;
  line-height: $kuiLineHeight;
}
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*/

import { licensePreRoutingFactory } from'../../../lib/license_pre_routing_factory';
/*
In order for the client to have the most up-to-date snapshot of the current license, it needs to make a round-trip to the kibana server. This refresh endpoint is provided for when the client needs to check the license, but doesn't need to pull data from the server for any reason, i.e., when adding a new watch.

```javascript
export function registerRefreshRoute(server) {
  const licensePreRouting = licensePreRoutingFactory(server);

  server.route({
    path: '/api/watcher/license/refresh',
    method: 'GET',
    handler: (request, reply) => {
      reply({ success: true });
    },
    config: {
      pre: [licensePreRouting]
    }
  });
}
```

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 */

```javascript
import { canStartTrial, startTrial } from '../lib/start_trial';
import { wrapEsError } from '../lib/wrap_es_error';

export function registerStartTrialRoutes(server) {
  const xpackInfo = server.plugins.xpack_main.info;
  server.route({
    path: '/api/license/start_trial',
    method: 'GET',
    handler: (request, reply) => {
      return canStartTrial(request)
        .then(reply, e => reply(wrapEsError(e)));
    }
  });

  server.route({
    path: '/api/license/start_trial',
    method: 'POST',
    handler: (request, reply) => {
      return startTrial(request, xpackInfo)
        .then(reply, e => reply(wrapEsError(e)));
    }
  });
}
```
import { createAction } from 'redux-actions';

export const addLicense =
createAction('LICENSE_MANAGEMENT_ADD_LICENSE');

export { checkLicense } from './check_license';

import Boom from 'boom';
import { PLUGIN } from '../../../common/constants';

export const licensePreRoutingFactory = (server) => {
  const xpackMainPlugin = server.plugins.xpack_main;

  // License checking and enable/disable logic
  function licensePreRouting(request, reply) {
    const licenseCheckResults = xpackMainPlugin.info.feature(PLUGIN.ID).getLicenseCheckResults();
    if (!licenseCheckResults.enableAPIRoute) {
      reply(Boom.forbidden(licenseCheckResults.message));
    } else {
      reply();
    }
  }

  return licensePreRouting;
};

$noticeBackgroundColor: #FFF;
$noticeTitleFontSize: 22px;

@import "notice";
import uiRoutes from 'ui/routes';
import { routeInitProvider } from 'plugins/monitoring/lib/route_init';
import template from './index.html';
import { LicenseViewController } from './controller';

uiRoutes.when('/license', {
  template,
  resolve: {
    clusters: (Private) => {
      const routeInit = Private(routeInitProvider);
      return routeInit();
    },
  },
  controllerAs: 'licenseView',
  controller: LicenseViewController
});

export { LicenseStatus } from './license_status.container';

// Jest Snapshot v1, https://goo.gl/fbAQLP

exports["RevertToBasic component should display when license is about to expire 1"] = "<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Revert to Basic license</span><div class="euiText euiText--small euiCard__description"><p>You'll revert to our free features and lose access to security, machine learning and other <a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a>.</p></div></span><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="revertToBasicButton">Revert to Basic</button></span></div></div>";

exports["RevertToBasic component should display when license is expired 1"] = "<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Revert to Basic license</span><div class="euiText euiText--small euiCard__description"><p>You'll revert to our free features and lose access to security, machine learning and other <a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a>.</p></div></span><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="revertToBasicButton">Revert to Basic</button></span></div></div>";
import React from 'react';
import { createInitialDataSelector } from './helpers';
import { Request } from 'react-redux-request';
import { loadLicense } from '../../services/rest/apm';

const ID = 'license';
const INITIAL_DATA = {
  features: {
    watcher: { isAvailable: false },
    ml: { isAvailable: false }
  },
  license: { isActive: false }
};

const withInitialData = createInitialDataSelector(INITIAL_DATA);

export function getLicense(state) {
  return withInitialData(state.reactReduxRequest[ID]);
}

export function LicenceRequest({ render }) {
  return (<Request id={ID} fn={loadLicense} selector={getLicense} render={render} />);
}

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*/

import { createInitialDataSelector } from './helpers';
import { Request } from 'react-redux-request';
import { loadLicense } from '../services/rest/apm';

const ID = 'license';
const INITIAL_DATA = {
  features: {
    watcher: { isAvailable: false },
    ml: { isAvailable: false }
  },
  license: { isActive: false }
};

const withInitialData = createInitialDataSelector(INITIAL_DATA);

export function getLicense(state) {
  return withInitialData(state.reactReduxRequest[ID]);
}

export function LicenceRequest({ render }) {
  return (<Request id={ID} fn={loadLicense} selector={getLicense} render={render} />);
}

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Open Source Used In Cisco VIM 3.4.312678
import { generatePackageNoticeText } from './generate_package_notice_text';
import { generateNodeNoticeText } from './generate_node_notice_text';

/**
 * When given a list of packages and the directory to the
 * node distribution that will be shipping with Kibana,
 * generates the text for NOTICE.txt
 *
 * @param {Object} [options={}]  
 * @property {Array<Package>} options.packages List of packages to check, see
 *                               getInstalledPackages() in ../packages
 * @property {string} options.nodeDir The directory containing the version of node.js
 *                               that will ship with Kibana
 * @return {undefined}
 */
export async function generateBuildNoticeText(options = {}) {
  const { packages, nodeDir, nodeVersion, noticeFromSource } = options;

  const packageNotices = await Promise.all(packages.map(generatePackageNoticeText));

  return [noticeFromSource,
           ...packageNotices,
           generateNodeNoticeText(nodeDir, nodeVersion),
           ].join('n---n');
}

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 */

import { get, find } from 'lodash';
import React from 'react';
import { render, unmountComponentAtNode } from 'react-dom';
import chrome from 'ui/chrome';
import { formatDateTimeLocal } from '../../../common/formatting';
import { MANAGEMENT_BASE_PATH } from 'plugins/xpack_main/components';
import { License } from 'plugins/monitoring/components';
import { timefilter } from 'ui/timefilter';

const REACT_NODE_ID = 'licenseReact';

export class LicenseViewController {
  constructor($injector, $scope) {
    timefilter.disableTimeRangeSelector();
    timefilter.disableAutoRefreshSelector();

    $scope.$on('$destroy', () => {
      unmountComponentAtNode(document.getElementById(REACT_NODE_ID));
    });

    this.init($injector, $scope);
  }

  init($injector, $scope) {
    const globalState = $injector.get('globalState');
    const title = $injector.get('title');
    const $route = $injector.get('$route');

    const cluster = find($route.current.locals.clusters, { cluster_uuid: globalState.cluster_uuid });
    $scope.cluster = cluster;
    title($scope.cluster, 'License');
    this.license = cluster.license;
    this.isExpired = Date.now() > get(cluster, 'license.expiry_date_in_millis');
    this.isPrimaryCluster = cluster.isPrimary;
    const basePath = chrome.getBasePath();
    this.uploadLicensePath = basePath + '/app/kibana#' + MANAGEMENT_BASE_PATH + 'upload_license';

    this.renderReact($scope);
  }

  renderReact($scope) {
    $scope.$evalAsync(() => {
      const { isPrimaryCluster, license, isExpired, uploadLicensePath } = this;
      let expiryDate = license.expiry_date_in_millis;
      if (license.expiry_date_in_millis !== undefined) {
        expiryDate = formatDateTimeLocal(license.expiry_date_in_millis);
      }
    });
  }
}
// Mount the React component to the template
render(
  <License
    isPrimaryCluster={isPrimaryCluster}
    status={license.status}
    type={license.type}
    isExpired={isExpired}
    expiryDate={expiryDate}
    uploadLicensePath={uploadLicensePath}
   />,
   document.getElementById(REACT_NODE_ID)
то);
});
}
}/*/ 

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  */

import { LicenseStatus as PresentationComponent } from './license_status';
import { connect } from 'react-redux';
import { getLicense, getExpirationDateFormatted, isExpired } from '../../../store/reducers/licenseManagement';

const mapStateToProps = (state) => {
const { isActive, type } = getLicense(state);
return {
  status: isActive ? 'Active' : 'Inactive',
  type,
  isExpired: isExpired(state),
  expiryDate: getExpirationDateFormatted(state)
};
};

export const LicenseStatus = connect(mapStateToProps)(PresentationComponent);

// Jest Snapshot v1, https://goo.gl/fbAQLP

exports[`UploadLicense should display a modal when license requires acknowledgement 1`] = `<Provider store={
  Object {
    "dispatch": [Function],
    "getState": [Function],
    "replaceReducer": [Function],
    "subscribe": [Function],
    Symbol(observable): [Function],
  }
};

Open Source Used In Cisco VIM 3.4.312681`
Some functionality will be lost if you replace your TRIAL license with a BASIC license. Review the list of features below.

Watcher will be disabled.
Upload your license

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Open Source Used In Cisco VIM 3.4.312685
Some functionality will be lost if you replace your TRIAL license with a BASIC license. Review the list of features below.

- Watcher will be disabled

**Open Source Used in Cisco VIM 3.4.312686**
Your license key is a JSON file with a signature attached.

Uploading a license will replace your current license.

Uploading a license will replace your current license.
Open Source Used In Cisco VIM 3.4.312690
Open Source Used in Cisco VIM 3.4.312691
exports['UploadLicense should display an error when ES says license is expired 1'] =
<Provider
store={
  Object {
    "dispatch": [Function],
    "getState": [Function],
    "replaceReducer": [Function],
    "subscribe": [Function],
    Symbol(observable): [Function],
  }
}
>
<Connect(UploadLicense)>
<UploadLicense
  addUploadErrorMessage={[Function]}
  applying={false}
  currentLicenseType=""
  errorMessage="The supplied license has expired."
  isValid={false}
  needsAcknowledgement={false}
  uploadLicense={[Function]}
uploadLicenseStatus={()[Function]}
>
<div
   className="licenseManagement__contain"
>
   <EuiFlexGroup
       alignItems="stretch"
       component="div"
       direction="row"
       gutterSize="l"
       justifyContent="spaceAround"
       responsive={true}
       wrap={false}
   >
   
   <div
       className="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround euiFlexGroup--directionRow euiFlexGroup--responsive"
   >
       <EuiFlexItem
           component="div"
           grow={false}
       >
           <div
               className="euiFlexItem euiFlexItem--flexGrowZero"
           >
               <EuiTitle
                   size="1"
               >
                   <h1
                       className="euiTitle euiTitle--large"
                   >
                       Upload your license
                   </h1>
               </EuiTitle>
               </EuiFlexItem>
           </div>
       </EuiFlexItem>
       </EuiFlexGroup>
   </div>
   
   <EuiSpacer
       size="l"
   >
   
   <div
       className="euiSpacer euiSpacer--l"
   />
   </EuiSpacer>
   <EuiPanel
       grow={true}
       hasShadow={false}
   >
   
   <div
       className="euiPanel euiPanel--hasShadow"
   />
   </EuiPanel>
   </div>
   </EuiFlexGroup>
</EuiPanel>
Your license key is a JSON file with a signature attached.

Uploading a license will replace your current license.
Please address the errors in your form.

- The supplied license has expired.

Select or drag your license file.
exports['UploadLicense should display an error when ES says license is invalid 1'] = `"<Provider
store={
  Object {
    "dispatch": [Function],
    "getState": [Function],
    "replaceReducer": [Function],
    "subscribe": [Function],
    Symbol(observable): [Function],
  }
}
>
<Connect(UploadLicense)>
<UploadLicense
  addUploadErrorMessage=[[Function]]
  applying=false
  currentLicenseType=""
  errorMessage="The supplied license is not valid for this product."
  isValid=false
  needsAcknowledgement=false
  uploadLicense=[[Function]]
  uploadLicenseStatus=[[Function]]
>
<div
    className="licenseManagement__contain"
>
  <EuiFlexGroup
    className="euiButton__text"
    >
    Upload
  </span>
  </span>
  </button>
  </EuiButton>
  </div>
  </EuiFlexItem>
  </div>
  </EuiFlexGroup>
  </div>
  </EuiForm>
  </div>
  </EuiPanel>
  </div>
  </UploadLicense>
  </Connect(UploadLicense)>
</Provider>
`
<div className="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround euiFlexGroup--directionRow euiFlexGroup--responsive">
  <EuiFlexItem component="div" grow={false}>
    <div className="euiFlexItem euiFlexItem--flexGrowZero">
      <EuiTitle size="l">
        <h1 className="euiTitle euiTitle--large">
          Upload your license
        </h1>
      </EuiTitle>
    </div>
  </EuiFlexItem>
</div>
</EuiFlexGroup>
<EuiSpacer size="l"/>

</EuiPanel>

Open Source Used In Cisco VIM 3.4.312700
Your license key is a JSON file with a signature attached.

Uploading a license will replace your current license.

The supplied license is not valid for this product.

Please address the errors in your form.
Please address the errors in your form.

The supplied license is not valid for this product.
exports['UploadLicense should display an error when submitting invalid JSON 1'] =

<Provider
store={
  Object {
    "dispatch": [Function],
    "getState": [Function],
    "replaceReducer": [Function],
    "subscribe": [Function],
    Symbol(observable): [Function],
  }
}
>

<Connect(UploadLicense)>
<UploadLicense
  addUploadErrorMessage=[[Function]]
  applying={false}
  currentLicenseType=""
  errorMessage="Error encountered uploading license: Check your license file."
  isValid={false}
  needsAcknowledgement={false}
  uploadLicense=[[Function]]
  uploadLicenseStatus=[[Function]]
>

<div
  className="licenseManagement__contain"
>
  <EuiFlexGroup
    alignItems="stretch"
    component="div"
    direction="row"
    gutterSize="l"
    justifyContent="spaceAround"
    responsive={true}
  >
Your license key is a JSON file with a signature attached.
Uploading a license will replace your current license.

Please address the errors in your form.
Error encountered uploading license: Check your license file.

Select or drag your license file.
exports['UploadLicense should display error when ES returns error 1'] = ''

<Provider
  store={
    Object {
      "dispatch": [Function],
      "getState": [Function],
      "replaceReducer": [Function],
      "subscribe": [Function],
      Symbol(observable): [Function],
    }
  }
>
  <Connect(UploadLicense)>
    <UploadLicense
      addUploadErrorMessage={[Function]}
      applying={false}
      currentLicenseType=""
      errorMessage="Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled"
      isInvalid={false}
      needsAcknowledgement={false}
      uploadLicense={[Function]}
      uploadLicenseStatus={[Function]}
    >
      <div
        className="licenseManagement__contain"
      >
        <EuiFlexGroup
className="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround euiFlexGroup--directionRow euiFlexGroup--responsive"
        alignItems="stretch"
className="licenseManagement__contain"
        direction="row"
gutterSize="l"
justifiesContent="spaceAround"
responsive={true}
wrap={false}
      >
        <div
className="licenseManagement__contain"
        direction="row"
gutterSize="l"
justifiesContent="spaceAround"
responsive={true}
wrap={false}
      >
        <div
className="licenseManagement__contain"
        direction="row"
gutterSize="l"
justifiesContent="spaceAround"
responsive={true}
wrap={false}
      >
Your license key is a JSON file with a signature attached.
Uploading a license will replace your current license.

Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled.

Please address the errors in your form.
Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled.
Open Source Used in Cisco VIM 3.4.312717
Select or drag your license file

</div>
</div>
</div>
</EuiFilePicker>
</div>
</EuiText>
</EuiSpacer>
<EuiFlexGroup alignItems="stretch" component="div" direction="row" gutterSize="l" justifyContent="spaceBetween" responsive={[true] wrap={false}}>
<div className="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceBetween euiFlexGroup--directionRow euiFlexGroup--responsive">
<EuiFlexItem component="div" grow={false}>
<div className="euiFlexItem euiFlexItem--flexGrowZero">
<EuiButtonEmpty color="primary" href="#/management/elasticsearch/license_management/home" iconSide="left" type="button">
<a className="euiButtonEmpty euiButtonEmpty--primary" href="#/management/elasticsearch/license_management/home">
<span className="euiButtonEmpty__content">

</span>
</a>
</EuiButtonEmpty>
</div>
</EuiFlexItem>
</div>
</EuiFlexGroup>
</div>
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</div>
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Version 2.0, January 2004
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{  
"name": "bar",  
"version": "1.0.0",  
"license": "MIT"
}

/*
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/

import { contains } from 'lodash';
import { uiModules } from 'ui/modules';
import { ML_SUPPORTED_LICENSES } from '../../common/constants';

const uiModule = uiModules.get('monitoring/license', []);
uiModule.service('license', () => {
  return new class LicenseService {
    constructor() {
      // do not initialize with usable state
      this.license = {
        type: null,
        expiry_date_in_millis: -Infinity
      };
    }

    // we're required to call this initially
    setLicense(license) {
      this.license = license;
    }

    isBasic() {

return this.license.type === 'basic';
}

mlIsSupported() {
    return contains(ML_SUPPORTED_LICENSES, this.license.type);
}

doesExpire() {
    const { expiry_date_in_millis: expiryDateInMillis } = this.license;
    return expiryDateInMillis !== undefined;
}

isActive() {
    const { expiry_date_in_millis: expiryDateInMillis } = this.license;
    return (new Date()).getTime() < expiryDateInMillis;
}

isExpired() {
    if (this.doesExpire()) {
        const { expiry_date_in_millis: expiryDateInMillis } = this.license;
        return (new Date()).getTime() >= expiryDateInMillis;
    }
    return false;
}

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 */

import { connect } from 'react-redux';
import { uploadLicense, uploadLicenseStatus } from '../../store/actions/upload_license';
import { addUploadErrorMessage } from '../../store/actions/add_error_message';

import {
    getUploadErrorMessage,
    getLicenseType,
    isInvalid,
    isApplying,
    uploadNeedsAcknowledgement,
    uploadMessages
} from '../../store/reducers/licenseManagement';
import { UploadLicense as PresentationComponent } from './upload_license';

const mapStateToProps = (state) => {
    return {
        getUploadErrorMessage,
        getLicenseType,
        isInvalid,
        isApplying,
        uploadNeedsAcknowledgement,
        uploadMessages
    } from '../../store/reducers/licenseManagement';
    import { UploadLicense as PresentationComponent } from './upload_license';

    const mapStateToProps = (state) => {

}
return {
    isInvalid: isInvalid(state),
    needsAcknowledgement: uploadNeedsAcknowledgement(state),
    messages: uploadMessages(state),
    errorMessage: getUploadErrorMessage(state),
    applying: isApplying(state),
    currentLicenseType: getLicenseType(state) || ''
};

const mapDispatchToProps = {
    addUploadErrorMessage,
    uploadLicense,
    uploadLicenseStatus,
};

export const UploadLicense = connect(mapStateToProps, mapDispatchToProps)(PresentationComponent);

// Jest Snapshot v1, https://goo.gl/fbAQLP

exports["StartTrial component when trial is allowed display for basic license 1"] = ""<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Start a 30-day trial</span><div class="euiText euiText--small euiCard__description"><p>Experience what security, machine learning, and all our other <a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a> have to offer.</p></div></span><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="startTrialButton"><span class="euiButton__content"><span class="euiButton__text">Start trial</span></span></button></span></div></div>";

exports["StartTrial component when trial is allowed should display for expired platinum license 1"] = ""<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Start a 30-day trial</span><div class="euiText euiText--small euiCard__description"><p>Experience what security, machine learning, and all our other <a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a> have to offer.</p></div></span><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="startTrialButton"><span class="euiButton__content"><span class="euiButton__text">Start trial</span></span></button></span></div></div>";

exports["StartTrial component when trial is allowed should display for gold license 1"] = ""<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Start a 30-day trial</span><div class="euiText euiText--small euiCard__description"><p>Experience what security, machine learning, and all our other <a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a> have to offer.</p></div></span><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="startTrialButton"><span class="euiButton__content"><span class="euiButton__text">Start trial</span></span></button></span></div></div>";
export function checkLicense(xPackInfo) {
  // If, for some reason, we cannot get license information from Elasticsearch,
  // assume worst-case and lock user at login screen.
  if (!xPackInfo.isAvailable()) {
    return {
      showLogin: true,
      allowLogin: false,
      showLinks: false,
      allowRoleDocumentLevelSecurity: false,
      allowRoleFieldLevelSecurity: false,
      allowRbac: false,
      layout: xPackInfo.isXpackUnavailable() ? 'error-xpack-unavailable' : 'error-es-unavailable'
    };
  }

  const isLicenseBasic = xPackInfo.license.isOneOf(['basic']);
  const isEnabledInES = xPackInfo.feature('security').isEnabled();
  if (!isEnabledInES || isLicenseBasic) {
    return {
      showLogin: false,
      allowLogin: false,
      showLinks: false,
      allowRoleDocumentLevelSecurity: false,
      allowRoleFieldLevelSecurity: false,
      allowRbac: false,
      layout: xPackInfo.isXpackUnavailable() ? 'error-xpack-unavailable' : 'error-es-unavailable'
    };
  }

  return {
    showLogin: true,
    allowLogin: true,
    showLinks: true,
    allowRoleDocumentLevelSecurity: true,
    allowRoleFieldLevelSecurity: true,
    allowRbac: true,
    layout: xPackInfo.isXpackAvailable() ? 'error' : 'error-es-available'
  };
}
allowLogin: false,
showLinks: false,
allowRoleDocumentLevelSecurity: false,
allowRoleFieldLevelSecurity: false,
allowRbac: false,
linksMessage: isLicenseBasic
  ? 'Your Basic license does not support Security. Please upgrade your license.'
  : 'Access is denied because Security is disabled in Elasticsearch.'
};

const isLicensePlatinumOrTrial = xPackInfo.license.isOneOf(['platinum', 'trial']);
return {
  showLogin: true,
  allowLogin: true,
  showLinks: true,
  // Only platinum and trial licenses are compliant with field- and document-level security.
  allowRoleDocumentLevelSecurity: isLicensePlatinumOrTrial,
  allowRoleFieldLevelSecurity: isLicensePlatinumOrTrial,
  allowRbac: true,
};

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 */

import { resolve } from 'path';
import { readFileSync } from 'fs';

export function generateNodeNoticeText(nodeDir, nodeVersion) {
  const licensePath = resolve(nodeDir, 'LICENSE');
  const license = readFileSync(licensePath, 'utf8');

  import { resolve } from 'path';
  import { readFileSync } from 'fs';

  export function generateNodeNoticeText(nodeDir, nodeVersion) {
    const licensePath = resolve(nodeDir, 'LICENSE');
    const license = readFileSync(licensePath, 'utf8');
  }
return 'This product bundles Node.js v${nodeVersion}.\n\n${license}';

@import (reference) '~ui/styles/variables/colors';

.tab-license {
  background: @globalColorLightestGray;
}

.licenseFeature {
  flex-grow: 1;
  background: @globalColorLightestGray;
  min-height: 100vh;
}

.licenseManagement__pageBody {
  padding-top: 24px;
  min-height: auto;
}

.licenseManagement__pageContent {
  flex-grow: 0; // Temporary fix for EUI bug.
}

.licenseManagement__contain {
  margin: auto;
}

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 */

import React from 'react';
import { BASE_PATH } from '../..../common/constants';
import {
  EuiButton,
  EuiButtonEmpty,
  EuiFilePicker,
  EuiForm,
  EuiSpacer,
  EuiConfirmModal,
  EuiOverlayMask,
  EuiText,
  EuiTitle,
  EuiFlexGroup,
  EuiFlexItem,
  EuiPanel
} from '@elastic/eui';
export class UploadLicense extends React.PureComponent {
    componentDidMount() {
        this.props.addUploadErrorMessage('');
    }
    send = acknowledge => {
        const file = this.file;
        const fr = new FileReader();
        fr.onload = ({ target: { result } }) => {
            this.props.uploadLicense(
                result,
                this.props.currentLicenseType,
                acknowledge
            );
        };
        fr.readAsText(file);
    }
    cancel = () => {
        this.props.uploadLicenseStatus({});
    };
    acknowledgeModal() {
        const {
            needsAcknowledgement,
            messages: [firstLine, ...messages] = []
        } = this.props;
        if (!needsAcknowledgement) {
            return null;
        }
        return (
            <EuiOverlayMask>
                <EuiConfirmModal
                    title="Confirm License Upload"
                    onCancel={this.cancel}
                    onConfirm={() => this.send(true)}
                    cancelButtonText="Cancel"
                    confirmButtonText="Confirm"
                    >
                    <div>
                        <EuiText>{firstLine}</EuiText>
                        <EuiText>
                            <ul>
                                {messages.map(message => <li key={message}>{message}</li>)}
                            </ul>
                        </EuiText>
                    </div>
                </EuiConfirmModal>
            </EuiOverlayMask>
        )
    }
}
errorMessage() {
    const { errorMessage } = this.props;
    if (!errorMessage) {
        return null;
    }
    return [errorMessage];
}
handleFile = (file) => {
    if (file) {
        this.props.addUploadErrorMessage('');
    }
    this.file = file;
};
submit = event => {
    event.preventDefault();
    if (this.file) {
        this.send();
    } else {
        this.props.addUploadErrorMessage('You must select a license file.');
    }
};
render() {
    const { currentLicenseType, applying } = this.props;
    return (
        <div className="licenseManagement__contain">
            <EuiFlexGroup justifyContent="spaceAround">
                <EuiFlexItem grow={false}>
                    <EuiTitle size="l">
                        <h1>Upload your license</h1>
                    </EuiTitle>
                </EuiFlexItem>
                {this.acknowledgeModal()}
            </EuiFlexGroup>
            <EuiText>
                Your license key is a JSON file with a signature attached.
            </EuiText>
            <EuiText>
                Uploading a license will replace your current{' '}
                <strong>{currentLicenseType.toUpperCase()} license.
            </EuiText>
            {this.acknowledgeModal()}
        </div>
    );
import { EventEmitter } from 'events';
import { watchStatusAndLicenseToInitialize, RETRY_SCALE_DURATION, RETRY_DURATION_MAX } from './watch_status_and_license_to_initialize';

const createMockXpackMainPluginAndFeature = (featureId) => {
  const licenseChangeCallbacks = [];

  const mockFeature = {
    getLicenseCheckResults: jest.fn(),
    mock: {
      triggerLicenseChange: () => {
        for (const callback of licenseChangeCallbacks) {
          callback();
        }
      },
      setLicenseCheckResults: (value) => {
        mockFeature.getLicenseCheckResults.mockReturnValue(value);
      }
    }
  }

  const mockXpackMainPlugin = {
    info: {
      onLicenseInfoChange: (callback) => {
        licenseChangeCallbacks.push(callback);
      },
      feature: (id) => {
        if (id === featureId) {
          return mockFeature;
        }
        throw new Error('Unexpected feature');
      }
    },
    status: new EventEmitter(),
    mock: {
      setStatus: (state, message) => {
        mockXpackMainPlugin.status.state = state;
        mockXpackMainPlugin.status.message = message;
        mockXpackMainPlugin.status.emit('change', null, null, state, message);
      }
    }
  };

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*/
return { mockXpackMainPlugin, mockFeature };}

const createMockDownstreamPlugin = (id) => {
    const defaultImplementation = () => { throw new Error('Not implemented'); };
    return {
        id,
        status: {
            disabled: jest.fn().mockImplementation(defaultImplementation),
            yellow: jest.fn().mockImplementation(defaultImplementation),
            green: jest.fn().mockImplementation(defaultImplementation),
            red: jest.fn().mockImplementation(defaultImplementation),
        },
    };
}

const advanceRetry = async (initializeCount) => {
    await Promise.resolve();
    let duration = initializeCount * RETRY_SCALE_DURATION;
    if (duration > RETRY_DURATION_MAX) {
        duration = RETRY_DURATION_MAX;
    }
    jest.advanceTimersByTime(duration);
};

['red', 'yellow', 'disabled'].forEach(state => {
    test(`mirrors ${state} immediately`, () => {
        const pluginId = 'foo-plugin';
        const message = `${state} is now the state`;
        const { mockXpackMainPlugin } = createMockXpackMainPluginAndFeature(pluginId);
        mockXpackMainPlugin.mock.setStatus(state, message);
        const downstreamPlugin = createMockDownstreamPlugin(pluginId);
        const initializeMock = jest.fn();
        downstreamPlugin.status[state].mockImplementation(() => {});
        watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);
        expect(initializeMock).not.toHaveBeenCalled();
        expect(downstreamPlugin.status[state]).toHaveBeenNthCalledWith(1, message);
    });
});

test(`calls initialize and doesn’t immediately set downstream status when the initial status is green`, () => {
    const pluginId = 'foo-plugin';
    const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
    mockXpackMainPlugin.mock.setStatus('green', 'green is now the state');
});

---
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const licenseCheckResults = Symbol();
mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
const downstreamPlugin = createMockDownstreamPlugin(pluginId);
const initializeMock = jest.fn().mockImplementation(() => new Promise(() => { }));

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).toHaveBeenCalledTimes(1);
expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
expect(downstreamPlugin.status.green).toHaveBeenCalledTimes(0);
});

test(`sets downstream plugin’s status to green when initialize resolves`, (done) => {
    const pluginId = 'foo-plugin';
    const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
    mockXpackMainPlugin.mock.setStatus('green', 'green is now the state');
    const licenseCheckResults = Symbol();
    mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
    const downstreamPlugin = createMockDownstreamPlugin(pluginId);
    const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

    watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

    expect(initializeMock).toHaveBeenCalledTimes(1);
    expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
    downstreamPlugin.status.green.mockImplementation(actualMessage => {
        expect(actualMessage).toBe('Ready');
        done();
    });
});

test(`sets downstream plugin’s status to red when initialize initially rejects, and continually polls initialize`, (done) => {
    jest.useFakeTimers();

    const pluginId = 'foo-plugin';
    const errorMessage = 'the error message';
    const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
    mockXpackMainPlugin.mock.setStatus('green');
    const licenseCheckResults = Symbol();
    mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
    const downstreamPlugin = createMockDownstreamPlugin(pluginId);

    let isRed = false;
    let initializeCount = 0;
    const initializeMock = jest.fn().mockImplementation(() => {
        ++initializeCount;
        if (initializeCount > 1) {
            isRed = true;
        }
    });

    expect(initializeMock).toHaveBeenCalledTimes(1);
    expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
    downstreamPlugin.status.green.mockImplementation(actualMessage => {
        expect(actualMessage).toBe('Ready');
        done();
    });
});
// on the second retry, ensure we already set the status to red
if (initializeCount === 2) {
  expect(isRed).toBe(true);
}

// this should theoretically continue indefinitely, but we only have so long to run the tests
if (initializeCount === 100) {
  done();
}

// everytime this is called, we have to wait for a new promise to be resolved
// allowing the Promise the we return below to run, and then advance the timers
setImmediate(() => {
  advanceRetry(initializeCount);
});
return Promise.reject(new Error(errorMessage));

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).toHaveBeenCalledTimes(1);
expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
downstreamPlugin.status.red.mockImplementation(message => {
  isRed = true;
  expect(message).toBe(errorMessage);
});

jest.useFakeTimers();

const pluginId = 'foo-plugin';
const errorMessage = 'the error message';
const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
mockXpackMainPlugin.mock.setStatus('green');
mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
downstreamPlugin = createMockDownstreamPlugin(pluginId);

let initializeCount = 0;
const initializeMock = jest.fn().mockImplementation() => {
  ++initializeCount;
  // everytime this is called, we have to wait for a new promise to be resolved
  // allowing the Promise the we return below to run, and then advance the timers
  setImmediate(() => {
    advanceRetry(initializeCount);
  });
}
if (initializeCount >= 10) {
    return Promise.resolve();
}

return Promise.reject(new Error(errorMessage));
);

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).toHaveBeenCalledTimes(1);
expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
downstreamPlugin.status.red.mockImplementation(message => {
    expect(initializeCount).toBeLessThan(10);
    expect(message).toBe(errorMessage);
});
downstreamPlugin.status.green.mockImplementation(message => {
    expect(initializeCount).toBe(10);
    expect(message).toBe('Ready');
    done();
});
);

let count = 0;
downstreamPlugin.status.green.mockImplementation(message => {
    expect(message).toBe('Ready');
    ++count;
    if (count === 1) {
        mockFeature.mock.setLicenseCheckResults(secondLicenseCheckResults);
        mockFeature.mock.triggerLicenseChange();
    }
    if (count === 2) {
        expect(initializeMock).toHaveBeenCalledWith(firstLicenseCheckResults);
        expect(initializeMock).toHaveBeenCalledWith(secondLicenseCheckResults);
        expect(initializeMock).toHaveBeenCalledTimes(2);
        done();
    }
});

});

test(`calls initialize twice when it gets a new license and the status is green`, (done) => {
    const pluginId = 'foo-plugin';
    const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
    mockXpackMainPlugin.mock.setStatus('green');
    const firstLicenseCheckResults = Symbol();
    const secondLicenseCheckResults = Symbol();
    mockFeature.mock.setLicenseCheckResults(firstLicenseCheckResults);
    const downstreamPlugin = createMockDownstreamPlugin(pluginId);
    const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

let count = 0;
downstreamPlugin.status.green.mockImplementation(message => {
    expect(message).toBe('Ready');
    ++count;
    if (count === 1) {
        mockFeature.mock.setLicenseCheckResults(secondLicenseCheckResults);
        mockFeature.mock.triggerLicenseChange();
    }
    if (count === 2) {
        expect(initializeMock).toHaveBeenCalledWith(firstLicenseCheckResults);
        expect(initializeMock).toHaveBeenCalledWith(secondLicenseCheckResults);
        expect(initializeMock).toHaveBeenCalledTimes(2);
        done();
    }
});
test('doesn’t call initialize twice when it gets a new license when the status isn’t green’, (done) => {
  const pluginId = ‘foo-plugin’;
  const redMessage = ‘the red message’;
  const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
  mockXpackMainPlugin.mock.setStatus(‘green’);
  const firstLicenseCheckResults = Symbol();
  const secondLicenseCheckResults = Symbol();
  mockFeature.mock.setLicenseCheckResults(firstLicenseCheckResults);
  const downstreamPlugin = createMockDownstreamPlugin(pluginId);
  const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

  downstreamPlugin.status.green.mockImplementation(message => {
    expect(message).toBe(‘Ready’);
    mockXpackMainPlugin.mock.setStatus(‘red’, redMessage);
    mockFeature.mock.setLicenseCheckResults(secondLicenseCheckResults);
    mockFeature.mock.triggerLicenseChange();
  });

  downstreamPlugin.status.red.mockImplementation(message => {
    expect(message).toBe(redMessage);
    expect(initializeMock).toBeCalledTimes(1);
    expect(initializeMock).toHaveBeenCalledWith(firstLicenseCheckResults);
    done();
  });

  watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);
});

test(‘calls initialize twice when the status changes to green twice’, (done) => {
  const pluginId = ‘foo-plugin’;
  const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
  mockXpackMainPlugin.mock.setStatus(‘green’);
  const licenseCheckResults = Symbol();
  mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
  const downstreamPlugin = createMockDownstreamPlugin(pluginId);
  const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

  let count = 0;
  downstreamPlugin.status.green.mockImplementation(message => {
    expect(message).toBe(‘Ready’);
    ++count;
    if (count === 1) {
      mockXpackMainPlugin.mock.setStatus(‘green’);
    }
  });

  watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);
});
if (count === 2) {
    expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
    expect(initializeMock).toHaveBeenCalledTimes(2);
    done();
} 
});

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);
});

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*/

import vfs from 'vinyl-fs';

const NOTICE_COMMENT_RE = /\*\*[s\n]*[@\notice\([w\W]*\)]*\*/g;
const NEWLINE_RE = /\r?\n/g;

/**
* Generates the text for the NOTICE.txt file at the root of the
* repo which details the licenses for code that is copied/vendored
* into the repository.
* *
* @param  {Object} options
* @property {string} options.productName Name to print at the top of the notice
* @property {ToolingLog} options.log
* @property {string} options.directory absolute path to the repo to search for @notice comments
* @return {string}
*/

export async function generateNoticeFromSource({ productName, directory, log }) {
    const globs = [
        '**/*.js,less,css,ts',
    ];

const options = {
  cwd: directory,
  nodir: true,
  ignore: [
    '{node_modules,build,target,dist,optimize}/**',
    'packages/**/{node_modules,build,target,dist}/**',
    'x-pack/{node_modules,build,target,dist,optimize}/**',
    'x-pack/packages/**/{node_modules,build,target,dist}/**',
  ]
};

log.debug('vfs.src globs', globs);
log.debug('vfs.src options', options);
log.info(`Searching ${directory} for multi-line comments starting with @notice`);

const files = vfs.src(globs, options);
const noticeComments = [];
await new Promise((resolve, reject) => {
  files
    .on('data', (file) => {
      log.verbose(`Checking for @notice comments in ${file.relative}`);
      const source = file.contents.toString('utf8');
      let match;
      while ((match = NOTICE_COMMENT_RE.exec(source)) !== null) {
        log.info(`Found @notice comment in ${file.relative}`);
        noticeComments.push(match[1]);
      }
    })
    .on('error', reject)
    .on('end', resolve);
});

let noticeText = '';
noticeText += `${productName}
`;  
noticeText += `Copyright 2012-$(new Date().getFullYear) Elasticsearch B.V.
`;  
for (const comment of noticeComments.sort()) {
  noticeText += '---
';  
  noticeText += comment
    .split(NEWLINE_RE)
    .map(line => (  
      line
      // trim whitespace
      .trim()
      // trim leading * and a single space
      .replace(/(^\*\?)/, '')
    )
  )

console.log(noticeText);
import { XPackInfoLicense } from './xpack_info_license';

function getXPackInfoLicense(getRawLicense) {
  return new XPackInfoLicense(getRawLicense);
}

describe('XPackInfoLicense', () => {

  const xpackInfoLicenseUndefined = getXPackInfoLicense(() => { });
  let xpackInfoLicense;
  let getRawLicense;

  beforeEach(() => {
    getRawLicense = jest.fn();
    xpackInfoLicense = getXPackInfoLicense(getRawLicense);
  });

  test('getUid returns uid field', () => {
    const uid = 'abc123';
    getRawLicense.mockReturnValue({ uid });
    expect(xpackInfoLicense.getUid()).toBe(uid);
    expect(getRawLicense).toHaveBeenCalledTimes(1);
    expect(xpackInfoLicenseUndefined.getUid()).toBe(undefined);
  });

  test('isActive returns true if status is active', () => {
    getRawLicense.mockReturnValue({ status: 'active' });
    expect(xpackInfoLicense.getIsActive()).toBe(true);
    expect(getRawLicense).toHaveBeenCalledTimes(1);
  });

  test('isActive returns false if status is inactive', () => {
    getRawLicense.mockReturnValue({ status: 'inactive' });
    expect(xpackInfoLicense.getIsActive()).toBe(false);
    expect(getRawLicense).toHaveBeenCalledTimes(1);
  });

  test('isActive returns false if status is undefined', () => {
    getRawLicense.mockReturnValue({});
    expect(xpackInfoLicense.getIsActive()).toBe(false);
    expect(getRawLicense).toHaveBeenCalledTimes(1);
  });
});
expect(xpackInfoLicense.isActive()).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(1);
});

test('isActive returns false if status is not active', () => {
  getRawLicense.mockReturnValue({ status: 'aCtIvE' }); // needs to match exactly
  expect(xpackInfoLicense.isActive()).toBe(false);
  expect(getRawLicense).toHaveBeenCalledTimes(1);
  expect(xpackInfoLicenseUndefined.isActive()).toBe(false);
});

test('getExpiryDateInMillis returns expiry_date_in_millis', () => {
  getRawLicense.mockReturnValue({ expiry_date_in_millis: 123 });
  expect(xpackInfoLicense.getExpiryDateInMillis()).toBe(123);
  expect(getRawLicense).toHaveBeenCalledTimes(1);
  expect(xpackInfoLicenseUndefined.getExpiryDateInMillis()).toBe(undefined);
});

test('isOneOf returns true of the mode includes one of the types', () => {
  getRawLicense.mockReturnValue({ mode: 'platinum' });
  expect(xpackInfoLicense.isOneOf('platinum')).toBe(true);
  expect(getRawLicense).toHaveBeenCalledTimes(1);
  expect(xpackInfoLicense.isOneOf(['platinum'])).toBe(true);
  expect(xpackInfoLicense.isOneOf(['platinum', 'gold'])).toBe(true);
  expect(xpackInfoLicense.isOneOf(['platinum', 'gold', 'basic'])).toBe(true);
  expect(xpackInfoLicense.isOneOf(['gold', 'platinum'])).toBe(true);
  expect(getRawLicense).toHaveBeenCalledTimes(2);
  expect(xpackInfoLicense.isOneOf(['gold', 'platinum'])).toBe(true);
  expect(getRawLicense).toHaveBeenCalledTimes(3);
  expect(xpackInfoLicense.isOneOf(['platinum', 'gold'])).toBe(true);
  expect(getRawLicense).toHaveBeenCalledTimes(4);
  expect(xpackInfoLicense.isOneOf(['basic', 'gold'])).toBe(false);
  expect(getRawLicense).toHaveBeenCalledTimes(5);
  expect(xpackInfoLicense.isOneOf(['basic'])).toBe(false);
  expect(getRawLicense).toHaveBeenCalledTimes(6);
  expect(xpackInfoLicenseUndefined.isOneOf(['platinum', 'gold'])).toBe(false);
});

test('getType returns the type', () => {
  getRawLicense.mockReturnValue({ type: 'basic' });
  expect(xpackInfoLicense.getType()).toBe('basic');
  expect(getRawLicense).toHaveBeenCalledTimes(1);
  expect(xpackInfoLicenseUndefined.getType()).toBe('basic');
});
getRawLicense.mockReturnValue({ type: 'gold' });

expect(xpackInfoLicense.getType()).toBe('gold');
expect(getRawLicense).toHaveBeenCalledTimes(2);

expect(xpackInfoLicenseUndefined.getType()).toBe(undefined);
});

}());

expect(xpackInfoLicense.getMode()).toBe('basic');
expect(getRawLicense).toHaveBeenCalledTimes(1);

getRawLicense.mockReturnValue({ mode: 'gold' });

expect(xpackInfoLicense.getMode()).toBe('gold');
expect(getRawLicense).toHaveBeenCalledTimes(2);

expect(xpackInfoLicenseUndefined.getMode()).toBe(undefined);
});

}());

expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(1);

getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'abc123' });

expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(2);

getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'NOTabc123' });

expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(3);

getRawLicense.mockReturnValue({ status: 'active', mode: 'NOTabc123' });

expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(4);

expect(xpackInfoLicenseUndefined.isActive(expectAbc123)).toBe(false);
});
test('isBasic returns the true if active and basic', () => {
    getRawLicense.mockReturnValue({ status: 'active', mode: 'basic' });

    expect(xpackInfoLicense.isBasic()).toBe(true);
    expect(getRawLicense).toHaveBeen CalledTimes(1);

    getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'gold' });

    expect(xpackInfoLicense.isBasic()).toBe(false);
    expect(getRawLicense).toHaveBeen CalledTimes(2);

    getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'trial' });

    expect(xpackInfoLicense.isBasic()).toBe(false);
    expect(getRawLicense).toHaveBeen CalledTimes(3);

    getRawLicense.mockReturnValue({ status: 'active', mode: 'platinum' });

    expect(xpackInfoLicense.isBasic()).toBe(false);
    expect(getRawLicense).toHaveBeen CalledTimes(4);

    expect(xpackInfoLicenseUndefined.isBasic()).toBe(false);
});

test('isNotBasic returns the true if active and not basic', () => {
    getRawLicense.mockReturnValue({ status: 'active', mode: 'platinum' });

    expect(xpackInfoLicense.isNotBasic()).toBe(true);
    expect(getRawLicense).toHaveBeen CalledTimes(1);

    getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'gold' });

    expect(xpackInfoLicense.isNotBasic()).toBe(false);
    expect(getRawLicense).toHaveBeen CalledTimes(2);

    getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'trial' });

    expect(xpackInfoLicense.isNotBasic()).toBe(false);
    expect(getRawLicense).toHaveBeen CalledTimes(3);

    getRawLicense.mockReturnValue({ status: 'active', mode: 'basic' });

    expect(xpackInfoLicense.isNotBasic()).toBe(false);
    expect(getRawLicense).toHaveBeen CalledTimes(4);

    expect(xpackInfoLicenseUndefined.isNotBasic()).toBe(false);
});
import React, { Fragment } from 'react';
import moment from 'moment-timezone';
import { capitalize } from 'lodash';
import { EuiLink } from '@elastic/eui';

const formatDateLocal = input => moment.tz(input, moment.tz.guess()).format('LL');

const WillExpireOn = ({ expiryDate }) => {
  if (expiryDate === undefined) {
    return null;
  }
  return <Fragment> will expire on {formatDateLocal(expiryDate)}</Fragment>;
};

export function LicenseText({ license, showLicenseExpiration }) {
  if (!showLicenseExpiration) {
    return null;
  }
  return (<EuiLink href="#/license">
    {capitalize(license.type)} license <WillExpireOn expiryDate={license.expiry_date_in_millis} />
  </EuiLink>);
}

import chrome from 'ui/chrome';
import $ from 'jquery';

export function putLicense(license, acknowledge) {
  const options = {
    url: `${chrome.addBasePath('/api/license')}${acknowledge ? '?acknowledge=true' : ''}`,
    data: license,
  };

export function startBasic(acknowledge) {
  const options = {
    url: `${chrome.addBasePath('/api/license/start_basic')}${acknowledge ? '?acknowledge=true' : ''}`,
    contentType: 'application/json',
    cache: false,
    crossDomain: true,
    type: 'POST',
  };

  return $.ajax(options);
}

export function startTrial() {
  const options = {
    url: chrome.addBasePath('/api/license/start_trial'),
    contentType: 'application/json',
    cache: false,
    crossDomain: true,
    type: 'POST',
  };

  return $.ajax(options);
}

export function canStartTrial() {
  const options = {
    url: chrome.addBasePath('/api/license/start_trial'),
    contentType: 'application/json',
    cache: false,
    crossDomain: true,
    type: 'GET',
  };

  return $.ajax(options);
}

// Jest Snapshot v1, https://goo.gl/fbAQLP

exports[`RequestTrialExtension component should display when license is active and trial has been used 1`] = """<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span"
mockXPackInfo = {
  isAvailable: sinon.stub(),
  isXpackUnavailable: sinon.stub(),
  feature: sinon.stub(),
  license: sinon.stub({
    isOneOf() { },
  })
};

mockXPackInfo.isAvailable.returns(true);

it('should display error when ES is unavailable', () => {
  mockXPackInfo.isAvailable.returns(false);
  mockXPackInfo.isXpackUnavailable.returns(false);

  const licenseCheckResults = checkLicense(mockXPackInfo);
  expect(licenseCheckResults).to.be.eql({
    showLogin: true,
    allowLogin: false,
    showLinks: false,
    allowRoleDocumentLevelSecurity: false,
    allowRoleFieldLevelSecurity: false,
    layout: 'error-es-unavailable',
    allowRbac: false,
  });
});

it('should display error when X-Pack is unavailable', () => {
  mockXPackInfo.isAvailable.returns(false);
  mockXPackInfo.isXpackUnavailable.returns(true);

  const licenseCheckResults = checkLicense(mockXPackInfo);
  expect(licenseCheckResults).to.be.eql({
    showLogin: true,
    allowLogin: false,
    showLinks: false,
    allowRoleDocumentLevelSecurity: false,
    allowRoleFieldLevelSecurity: false,
    layout: 'error-xpack-unavailable',
    allowRbac: false,
  });
});

it('should not show login page or other security elements if license is basic.', () => {
  mockXPackInfo.license.isOneOf.withArgs(['basic']).returns(true);
  mockXPackInfo.feature.withArgs('security').returns({
    isAvailable: sinon.stub(),
    isXpackUnavailable: sinon.stub(),
    feature: sinon.stub(),
    license: sinon.stub({
      isOneOf() { },
    })
  });

  mockXPackInfo.isAvailable.returns(true);
});
isEnabled: () => { return true; }
});

const licenseCheckResults = checkLicense(mockXPackInfo);
expect(licenseCheckResults).to.be.eql({
    showLogin: false,
    allowLogin: false,
    showLinks: false,
    allowRoleDocumentLevelSecurity: false,
    allowRoleFieldLevelSecurity: false,
    allowRbac: false,
    linksMessage: 'Your Basic license does not support Security. Please upgrade your license.'
});

it('should not show login page or other security elements if security is disabled in Elasticsearch.', () => {
    mockXPackInfo.license.isOneOf.withArgs(\['basic'\]).returns(false);
    mockXPackInfo.feature.withArgs(\'security\').returns({
        isEnabled: () => { return false; }
    });
}

const licenseCheckResults = checkLicense(mockXPackInfo);
expect(licenseCheckResults).to.be.eql({
    showLogin: false,
    allowLogin: false,
    showLinks: false,
    allowRoleDocumentLevelSecurity: false,
    allowRoleFieldLevelSecurity: false,
    allowRbac: false,
    linksMessage: 'Access is denied because Security is disabled in Elasticsearch.'
});

it('should allow to login and allow RBAC but forbid document level security if license is not platinum or trial.', () => {
    mockXPackInfo.license.isOneOf
        .returns(false)
        .withArgs(\['platinum', 'trial'\]).returns(false);
    mockXPackInfo.feature.withArgs(\'security\').returns({
        isEnabled: () => { return true; }
    });

    expect(checkLicense(mockXPackInfo)).to.be.eql({
        showLogin: true,
        allowLogin: true,
        showLinks: true,
        allowRoleDocumentLevelSecurity: false,
        allowRoleFieldLevelSecurity: false,
allowRbac: true,
});
});

it('should allow to login, allow RBAC and document level security if license is platinum or trial.', () => {
mockXPackInfo.license.isOneOf
 .returns(false)
 .withArgs(['platinum', 'trial']).returns(true);
mockXPackInfo.feature.withArgs('security').returns({
 isEnabled: () => { return true; }
});

expect(checkLicense(mockXPackInfo)).to.be.eql({
 showLogin: true,
 allowLogin: true,
 showLinks: true,
 allowRoleDocumentLevelSecurity: true,
 allowRoleFieldLevelSecurity: true,
 allowRbac: true,
 });
});

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*/

import { readFileSync, writeFileSync } from 'fs';
import { resolve } from 'path';
import getopts from 'getopts';
import { createToolingLog, pickLevelFromFlags } from '@kbn/dev-utils';
import { REPO_ROOT } from '../constants';
import { generateNoticeFromSource } from '../generate_notice_from_source';

const unknownFlags = [];
const opts = getopt(process.argv.slice(2), { boolean: ['help', 'validate', 'verbose', 'debug'], unknown(flag) {
  unknownFlags.push(flag);
});

const log = createToolingLog(pickLevelFromFlags(opts));
log.pipe(process.stdout);

if (unknownFlags.length) {
  log.error('Unknown flags ${unknownFlags.map(f => `\`${f}\`\`).join(``,`\`)\'});
  process.exitCode = 1;
  opts.help = true;
}

if (opts.help) {
  process.stdout.write('
' + dedent`
Generate or validate NOTICE.txt.

Entries are collected by finding all multi-line comments that start
with a "@notice" tag and copying their text content into NOTICE.txt.

Options:
  --help     Show this help info
  --validate Don't write the NOTICE.txt, just fail if updates would have been made
  --verbose  Set logging level to verbose
  --debug    Set logging level to debug
` + '

');
  process.exit();
}

(async function run() {
  const path = resolve(REPO_ROOT, 'NOTICE.txt');
  const newContent = await generateNoticeFromSource(
    { productName: 'Kibana source code with Kibana X-Pack source code',
      directory: REPO_ROOT,
      log,
}
```javascript
const currentContent = readFileSync(path, 'utf8');
if (currentContent === newContent) {
    log.success('NOTICE.txt is up to date');
    return;
}

if (!opts.validate) {
    log.success('Wrote notice text to NOTICE.txt');
    writeFileSync(path, newContent, 'utf8');
    return;
}

log.error('NOTICE.txt is out of date, run `node scripts/notice` to update and commit the results.');
process.exit(1);
}().catch(error => {
    log.error(error);
    process.exit(1);
});

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 */

import { get } from 'lodash';

/**
 * "View" for XPack Info license information.
 */
export class XPackInfoLicense {
    /**
     * Function that retrieves license information from the XPack info object.
     * @type {Function}
     * @private
     */
    _getRawLicense = null;

    constructor(getRawLicense) {
        this._getRawLicense = getRawLicense;
    }

    /**
     * Returns unique identifier of the license.
     * @returns {string|undefined}
     */
    getUid() {
```
return get(this._getRawLicense(), 'uid');
}

/**
 * Indicates whether license is still active.
 * @returns {boolean}
 */
isActive() {
  return get(this._getRawLicense(), 'status') === 'active';
}

/**
 * Returns license expiration date in ms.
 * Note: A basic license created after 6.3 will have no expiration, thus returning undefined.
 * @returns {number|undefined}
 */
getExpiryDateInMillis() {
  return get(this._getRawLicense(), 'expiry_date_in_millis');
}

/**
 * Checks if the license is represented in a specified license list.
 * @param {String} candidateLicenses List of the licenses to check against.
 * @returns {boolean}
 */
isOneOf(candidateLicenses) {
  if (!Array.isArray(candidateLicenses)) {
    candidateLicenses = [candidateLicenses];
  }

  return candidateLicenses.includes(get(this._getRawLicense(), 'mode'));
}

/**
 * Returns type of the license (basic, gold etc.).
 * @returns {string|undefined}
 */
getType() {
  return get(this._getRawLicense(), 'type');
}

/**
 * Returns mode of the license (basic, gold etc.). This is the "effective" type of the license.
 * @returns {string|undefined}
 */
getMode() {
return get(this._getRawLicense(), 'mode');
}

/**
 * Determine if the current license is active and the supplied typeChecker.
 *
 * @param {Function} typeChecker The license type checker.
 * @returns {boolean}
 */
isActiveLicense(typeChecker) {
    const license = this._getRawLicense();

    return get(license, 'status') === 'active' && typeChecker(get(license, 'mode'));
}

/**
 * Determine if the license is an active, basic license.
 *
 * Note: This also verifies that the license is active. Therefore it is not safe to assume that !isBasic() ===
 * isNotBasic().
 *
 * @returns {boolean}
 */
isBasic() {
    return this.isActiveLicense(mode => mode === 'basic');
}

/**
 * Determine if the license is an active, non-basic license (e.g., standard, gold, platinum, or trial).
 *
 * Note: This also verifies that the license is active. Therefore it is not safe to assume that !isBasic() ===
 * isNotBasic().
 *
 * @returns {boolean}
 */
isNotBasic() {
    return this.isActiveLicense(mode => mode !== 'basic');
}

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 */

import React from 'react';
import { EuiPage,
const LicenseUpdateInfoForPrimary = (isPrimaryCluster, uploadLicensePath) => {
    if (!isPrimaryCluster) {
        return null;
    }

    // viewed license is for the cluster directly connected to Kibana
    return <AddLicense uploadPath={uploadLicensePath} />;
};

const LicenseUpdateInfoForRemote = (isPrimaryCluster) => {
    if (isPrimaryCluster) {
        return null;
    }

    // viewed license is for a remote monitored cluster not directly connected to Kibana
    return (
        <EuiPanel>
            <p>
                To update the license for this cluster, provide the license file through
                the Elasticsearch API:
            </p>
            <EuiSpacer />
            <EuiCodeBlock>
                {`
                curl -XPUT -u <user> 'https://<host>:<port>/_xpack/license' -H 'Content-Type: application/json' -d
                @license.json`
            }
        </EuiCodeBlock>
    </EuiPanel>
    );
};

export function License(props) {
    const { status, type, isExpired, expiryDate } = props;
    return (n
        <EuiPage className="licenseManagement">
            <EuiPageBody className="licenseManagement__pageBody">
                <div className="licenseManagement__contain">
                    <LicenseStatus
                        isExpired={isExpired}
                        status={status}
                        type={type}
                        expiryDate={expiryDate}
                    >
exports['LicenseStatus component should display display warning is expired 1'] = `"<div class="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround euiFlexGroup--directionRow euiFlexGroup--responsive">
  <div class="euiFlexItem euiFlexItem--flexGrowZero">
  </div>
</div>";
import * as Rx from 'rxjs';
import { catchError, mergeMap, map, switchMap, tap } from 'rxjs/operators';

export const RETRY_SCALE_DURATION = 100;
export const RETRY_DURATION_MAX = 10000;

const calculateDuration = i => {
  const duration = i * RETRY_SCALE_DURATION;
  if (duration > RETRY_DURATION_MAX) {
    return RETRY_DURATION_MAX;
  }

  return duration;
};

// we can't use a retryWhen here, because we want to propagate the red status and then retry
const propagateRedStatusAndScaleRetry = () => {
  let i = 0;
  return (err, caught) =>
    Rx.concat(
      Rx.of({
        state: 'red',
        message: err.message
      }),
      Rx.timer(calculateDuration(++i)).pipe(mergeMap(() => caught))
    );
};

export function watchStatusAndLicenseToInitialize(xpackMainPlugin, downstreamPlugin, initialize) {
  const xpackInfo = xpackMainPlugin.info;
  const xpackInfoFeature = xpackInfo.feature(downstreamPlugin.id);
  const upstreamStatus = xpackMainPlugin.status;
  const currentStatus$ = Rx
    .of({
      state: upstreamStatus.state,
      message: upstreamStatus.message,
    })
    // .pipe(propagateRedStatusAndScaleRetry());
  const newStatus$ = Rx
    .of({
      state: 'red',
      message: 'License will expire on ' + new Date().toLocaleDateString() + ' at ' + new Date().toLocaleTimeString() + '.
    });
  initialize();
}
fromEvent(upstreamStatus, 'change', null, (previousState, previousMsg, state, message) => {
  return {
    state,
    message,
  };
});
const status$ = Rx.merge(currentStatus$, newStatus$);

const currentLicense$ = Rx.of(xpackInfoFeature.getLicenseCheckResults());
const newLicense$ = Rx
  .fromEventPattern(xpackInfo.onLicenseInfoChange.bind(xpackInfo))
  .pipe(map(() => xpackInfoFeature.getLicenseCheckResults()));
const license$ = Rx.merge(currentLicense$, newLicense$);

Rx.combineLatest(status$, license$)
  .pipe(
    map(([status, license]) => ({ status, license })),
    switchMap(([status, license]) => {
      if (status.state !== 'green') {
        return Rx.of({ state: status.state, message: status.message });
      }
      return Rx.defer(() => initialize(license))
        .pipe(
          map(() => ({
            state: 'green',
            message: 'Ready',
          })),
          catchError(propagateRedStatusAndScaleRetry())
        );
    }),
    tap(([state, message]) => {
      downstreamPlugin.status[state](message);
    }));
).subscribe();

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*/

import { getBundledNotices } from './bundled_notices';

const concatNotices = notices => notices.map(notice => notice.text).join('
');

export async function generatePackageNoticeText(pkg) {
    const bundledNotices = concatNotices(await getBundledNotices(pkg.directory));

    const intro = `This product bundles ${pkg.name}@${pkg.version}`;
    const license = ` which is available under ${pkg.licenses.length > 1
    ? `the
    "${pkg.licenses.join('", "')} licenses."`
    : `a
    "${pkg.licenses[0]}" license."`
    }`
    ;

    const moreInfo = bundledNotices
    ? `
    ${bundledNotices}
    ` : `For details, see ${pkg.relative}/.`;

    return `$${intro}${license}${moreInfo}`;
}

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export { registerLicenseChecker } from './register_license_checker';

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export const BASE_PATH = '/management/elasticsearch/license_management/';

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*/
import React from 'react';
import { LicenseDashboard, UploadLicense } from './sections/';
import { Switch, Route } from 'react-router-dom';
import { BASE_PATH } from '../common/constants';
import {
  EuiPage,
  EuiPageBody,
} from '@elastic/eui';

export default () => (
  <EuiPage className="licenseManagement">
    <EuiPageBody className="licenseManagement__pageBody">
      <Switch>
        <Route path={`${BASE_PATH}upload_license`} component={UploadLicense}/>
        <Route path={`${BASE_PATH}`} component={LicenseDashboard}/>
      </Switch>
    </EuiPageBody>
  </EuiPage>
);

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 */

import { LicenseStatus } from '../public/sections/license_dashboard/license_status';
import { createMockLicense, getComponent } from './util';

describe('LicenseStatus component', () => {
  test('should display normally when license is active', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('gold')
      },
      LicenseStatus
    );
    expect(rendered.html()).toMatchSnapshot();
  });
  test('should display display warning is expired', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('platinum', 0)
      },
      LicenseStatus
    );
    expect(rendered.html()).toMatchSnapshot();
  });
});
import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import { Notifier } from 'ui/notify';

export function checkLicenseError(kbnUrl, Promise, Private) {
    const xpackInfo = Private(XPackInfoProvider);
    const genericNotifier = new Notifier({ location: 'Security' });

    return err => {
        if (!xpackInfo.get('features.security.showLinks')) {
            genericNotifier.error(xpackInfo.get('features.security.linksMessage'));
            kbnUrl.redirect('/management');
            return Promise.halt();
        }
        return Promise.reject(err);
    };
}

export { generateNoticeFromSource } from './generate_notice_from_source';
export { generateBuildNoticeText } from './generate_build_notice_text';

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 */
import { mirrorPluginStatus } from '../../../../../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
  const xpackMainPlugin = server.plugins.xpack_main;
  const watcherPlugin = server.plugins.watcher;

  mirrorPluginStatus(xpackMainPlugin, watcherPlugin);
  xpackMainPlugin.status.once('green', () => {
    // Register a function that is called whenever the xpack info changes,
    // to re-compute the license check results for this plugin
    xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
  });
}

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 */

export const PLUGIN = {
  ID: 'license_management'
};

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 */

import React from 'react';
import { render, unmountComponentAtNode } from 'react-dom';
import { Provider } from 'react-redux';
import { HashRouter } from 'react-router-dom';
import App from './app';
import { BASE_PATH } from '../common/constants/base_path';

import routes from 'ui/routes';
import { XPackInfoProvider as xpackInfoProvider } from 'plugins/xpack_main/services/xpack_info';

import template from './main.html';
import { licenseManagementStore } from './store';

const renderReact = (elem, store) => {
  render(
    <Provider store={store}>
      <HashRouter basename={BASE_PATH}>
        <App />
      </HashRouter>
    </Provider>
  , elem);
}

renderReact(document.getElementById('react-root'), licenseManagementStore);
<HashRouter>
<App />
</HashRouter>

This method handles the cleanup needed when route is scope is destroyed. It also prevents Angular from destroying scope when route changes and both old route and new route are this same route. */

const manageAngularLifecycle = ($scope, $route, elem) => {
  const lastRoute = $route.current;
  const deregister = $scope.$on('$locationChangeSuccess', () => {
    const currentRoute = $route.current;
    // if templates are the same we are on the same route
    if (lastRoute.$$route.template === currentRoute.$$route.template) {
      // this prevents angular from destroying scope
      $route.current = lastRoute;
    }
  });
  $scope.$$postDigest(() => {
    const elem = document.getElementById('licenseReactRoot');
    const xPackInfo = xpackInfoProvider($window, $injector, $injector.get('Private'));
  });

  routes
  .when(`${BASE_PATH}:view?`, {
    template: template,
    controllerAs: 'licenseManagement',
    controller: class LicenseManagementController {
      constructor($injector, $window, $rootScope, $scope, $route, kbnUrl) {
        let autoLogout = null;
        /* if security is disabled, there will be no autoLogout service,
        so just substitute noop function in that case */
        try {
          autoLogout = $injector.get('autoLogout');
        } catch (e) {
          autoLogout = () => {};
        }

        $scope.$$postDigest(() => {
          const elem = document.getElementById('licenseReactRoot');
          const xPackInfo = xpackInfoProvider($window, $injector, $injector.get('Private'));
        });
    }
  });
const initialState = { license: xPackInfo.get('license') };  
const kbnUrlWrapper = {
    change(url) {
        kbnUrl.change(url);
        $rootScope.$digest();
    }
};
const services = { autoLogout, xPackInfo, kbnUrl: kbnUrlWrapper };  
const store = licenseManagementStore(initialState, services);
renderReact(elem, store);
manageAngularLifecycle($scope, $route, elem);
});

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*/

import { RevertToBasic } from '../public/sections/license_dashboard/revert_to_basic';
import { createMockLicense, getComponent } from './util';

describe('RevertToBasic component', () => {
    test('should display when trial is active', () => {
        const rendered = getComponent(
            {
                license: createMockLicense('trial')
            },
            RevertToBasic
        );
        expect(rendered.html()).toMatchSnapshot();
    });
    test('should display when license is expired', () => {
        const rendered = getComponent(
            {
                license: createMockLicense('platinum', 0)
            },
            RevertToBasic
        );
        expect(rendered.html()).toMatchSnapshot();
    });
    test('should display when license is about to expire', () => {
        // ten days from now
        const imminentExpirationTime = new Date().getTime() + (10 * 24 * 60 * 60 * 1000);
        const rendered = getComponent(
            {
                license: createMockLicense('platinum', imminentExpirationTime)
            },
            RevertToBasic
        );
        expect(rendered.html()).toMatchSnapshot();
    });
});
const Boom = require('boom');

export function routePreCheckLicense(server) {
  const xpackMainPlugin = server.plugins.xpack_main;
  const pluginId = 'security';
  return function forbidApiAccess(request, reply) {
    const licenseCheckResults = xpackMainPlugin.info.feature(pluginId).getLicenseCheckResults();
    if (!licenseCheckResults.showLinks) {
      license: createMockLicense('platinum', imminentExpirationTime)
    },
    RevertToBasic
  );
  expect(rendered.html()).toMatchSnapshot();
});

test('should not display for active basic license', () => {
  const rendered = getComponent(
    {
      license: createMockLicense('basic')
    },
    RevertToBasic
  );
  expect(rendered.html()).toBeNull();
});

test('should not display for active gold license', () => {
  const rendered = getComponent(
    {
      license: createMockLicense('gold')
    },
    RevertToBasic
  );
  expect(rendered.html()).toBeNull();
});

test('should not display for active platinum license', () => {
  const rendered = getComponent(
    {
      license: createMockLicense('platinum')
    },
    RevertToBasic
  );
  expect(rendered.html()).toBeNull();
});
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*/

const Boom = require('boom');
reply(Boom.forbidden(licenseCheckResults.linksMessage));
} else {
    reply();
}

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 */

import { resolve } from 'path';
import { readFileSync } from 'fs';
import { generateBuildNoticeText } from './generate_build_notice_text';

const NODE_MODULES = resolve(__dirname, '__fixtures__/node_modules');
const NODE_DIR = resolve(process.execPath, '../..');
const NODE_VERSION = '8.11.3';
const PACKAGES = [
    {
        name: 'bar',
        version: '1.0.0',
        licenses: ['MIT'],
        directory: resolve(NODE_MODULES, 'bar'),
        relative: 'node_modules/bar',
    },
    {
        name: 'foo',
        version: '1.0.0',
        licenses: ['Apache 2.0'],
        directory: resolve(NODE_MODULES, 'foo'),
        relative: 'node_modules/foo',
    },];
describe('src/dev/build/tasks/notice_file/generate_notice', () => {

describe('generateBuildNoticeText()', () => {

  let notice;

  beforeAll(
    async () => {

      notice = await generateBuildNoticeText({
        packages: PACKAGES,
        nodeDir: NODE_DIR,
        nodeVersion: NODE_VERSION,
        noticeFromSource: 'NOTICE_FROM_SOURCE
      })
    })
  );

  it('returns a string', () => {
    expect(typeof notice).toBe('string');
  });

  it('includes *NOTICE* files from packages', () => {
    expect(notice).toEqual(expect.stringContaining(
      readFileSync(resolve(NODE_MODULES, 'foo/NOTICE.txt'), 'utf8')
    ));
  });

  it('includes *LICENSE* files from packages', () => {
    expect(notice).toEqual(expect.stringContaining(
      readFileSync(resolve(NODE_MODULES, 'bar/LICENSE.md'), 'utf8')
    ));
  });

  it('includes the LICENSE file from node', () => {
    expect(notice).toEqual(expect.stringContaining(
      readFileSync(resolve(NODE_DIR, 'LICENSE'), 'utf8')
    ));
  });

  it('includes node version', () => {
    expect(notice).toEqual(expect.stringContaining(
      'This product bundles Node.js v8.11.3'
    ));
  });

  it('includes the noticeFromSource', () => {
    expect(notice).toEqual(expect.stringContaining(
  });

});

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import React from 'react';
import { toastNotifications } from 'ui/notify';
import { MarkdownSimple } from 'ui/markdown';
import { PLUGIN } from '../../../common/constants';

export class LogstashLicenseService {
  constructor(xpackInfoService, kbnUrlService, $timeout) {
    this.xpackInfoService = xpackInfoService;
    this.kbnUrlService = kbnUrlService;
    this.$timeout = $timeout;
  }

  get enableLinks() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.enableLinks`));
  }

  get isAvailable() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.isAvailable`));
  }

  get isReadOnly() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.isReadOnly`));
  }

  get message() {
    return this.xpackInfoService.get(`features.${PLUGIN.ID}.message`);
  }

  notifyAndRedirect() {
    toastNotifications.addDanger({
      title: <MarkdownSimple>{this.xpackInfoService.get(`features.${PLUGIN.ID}.message`)}</MarkdownSimple>,
    });
    this.kbnUrlService.redirect('/management');
  }
}

/**
 * Checks if the license is valid or the license can perform downgraded UI tasks.
 */
* Otherwise, notifies and redirects. */

checkValidity() {
    return new Promise((resolve, reject) => {
        this.$timeout() => {
            if (this.isAvailable) {
                return resolve();
            }
            this.notifyAndRedirect();
            return reject();
        }, 10); // To allow latest XHR call to update license info
    });
}

export const LICENSE_WHITELIST = [
    'Elastic-License',
    '(BSD-2-Clause OR MIT OR Apache-2.0)',
    '(BSD-2-Clause OR MIT)',
    '(GPL-2.0 OR MIT)',
    '(MIT AND CC-BY-3.0)',
    '(MIT AND Zlib)',
    '(MIT OR Apache-2.0)',
    '(WTFPL OR MIT)',
    'AFLv2.1',
    'Apache 2.0',
    'Apache License, v2.0',
    'Apache License, Version 2.0',
    'Apache']
'Apache*'
'Apache, Version 2.0'
'Apache-2.0'
'BSD 3-Clause'
'BSD New'
'BSD'
'BSD*'
'BSD-2-Clause'
'BSD-3-Clause AND MIT'
'BSD-3-Clause OR MIT'
'BSD-3-Clause'
'BSD-like'
'CC0-1.0'
'CC-BY'
'CC-BY-3.0'
'CC-BY-4.0'
'ISC'
'MIT OR GPL-2.0'
'MIT'
'MIT*'
'MIT/X11'
'new BSD, and MIT'
'OFL-1.1 AND MIT'
'Public Domain'
'Unlicense'
'WTFPL OR ISC'
'WTFPL'
];

export const LICENSE_OVERRIDES = {
  // TODO can be removed once we upgrade past elasticsearch-browser@14.0.0
  'elasticsearch-browser@13.0.1': ['Apache-2.0'],

  // TODO can be removed once we upgrade past colors.js@1.0.0
  'colors@0.5.1': ['MIT'],

  // TODO can be removed once we upgrade past map-stream@0.5.0
  'map-stream@0.1.0': ['MIT'],
  'uglify-js@2.2.5': ['BSD'],
  'png-js@0.1.1': ['MIT'],
  'sha.js@2.4.11': ['BSD-3-Clause AND MIT'],
};

{"xpack.license.get_basic_status": {"methods": ["GET"],
  "patterns": [}
import React from 'react';
import { BASE_PATH } from './/./././common/consts';

import { EuiCard, EuiButton } from '@elastic/eui';

export const AddLicense = ({ uploadPath = `#${BASE_PATH}upload_license` }) => {
  return (<
    EuiCard
      title="Update your license"
      description="If you already have a new license, upload it now."
      footer={
        <EuiButton
          data-test-subj="updateLicenseButton"
          style={{ marginTop: 'auto' }}
          href={uploadPath}
        >
          Update license
        </EuiButton>
      }
  />
);};

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 */

import createStore, {applyMiddleware, compose} from 'redux';
import thunk from 'redux-thunk';

import { licenseManagement } from './reducers/';

export const licenseManagementStore = (initialState = {}, services = {}) => {
  const enhancers = [ applyMiddleware(thunk.withExtraArgument(services)) ];

  window.__REDUX_DEVTOOLS_EXTENSION__ &&
  window.__REDUX_DEVTOOLS_EXTENSION__();

  const licenseManagementStore = createStore(licenseManagement, initialState, compose(...enhancers));

  return licenseManagementStore;};

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 */
enhancers.push(window.__REDUX_DEVTOOLS_EXTENSION__());
return createStore(
    licenseManagement,
    initialState,
    compose(...enhancers)
);

{ "name": "@kbn/eslint-plugin-license-header",
  "version": "1.0.0",
  "private": true,
  "license": "Apache-2.0",
  "peerDependencies": { 
    "eslint": "^4.0.0",
    "babel-eslint": "^8.2.1"
  },
  "dependencies": { 
    "dedent": "^0.7.0"
  }
}

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 */

import { uiModules } from 'ui/modules';
import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import 'ui/url';
import { LogstashLicenseService } from './logstash_license_service';

uiModules.get('xpack/logstash')
 .factory('logstashLicenseService', ($injector) => {
    const Private = $injector.get('Private');
    const xpackInfoService = Private(XPackInfoProvider);
    const kbnUrlService = $injector.get('kbnUrl');
    const $timeout = $injector.get('$timeout');

    return new LogstashLicenseService(xpackInfoService, kbnUrlService, $timeout);
 });

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 */

import { connect } from 'react-redux';
import { RevertToBasic as PresentationComponent } from './revert_to_basic';
import {
  startBasicLicenseNeedsAcknowledgement,
  getLicenseType,
  shouldShowRevertToBasicLicense,
  getStartBasicMessages
} from '../../../store/reducers/licenseManagement';
import { startBasicLicense, cancelStartBasicLicense } from '../../../store/actions/start_basic';

const mapStateToProps = state => {
  return {
    shouldShowRevertToBasicLicense: shouldShowRevertToBasicLicense(state),
    licenseType: getLicenseType(state),
    needsAcknowledgement: startBasicLicenseNeedsAcknowledgement(state),
    messages: getStartBasicMessages(state)
  };
};

const mapDispatchToProps = {
  startBasicLicense,
  cancelStartBasicLicense
};

export const RevertToBasic = connect(mapStateToProps, mapDispatchToProps)(
  PresentationComponent
);

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 */

export { licenseManagement } from './licenseManagement';

{ "xpack.license.post_start_trial": {
  "url_params": {
    "type": "\"trial\"",
    "acknowledge": "\_flag\_"
  },
  "methods": [
    "POST"
  ],
  "patterns": [
    "_xpack/license/start_trial"
  ],
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}
import licenseChecker from 'license-checker';

export function callLicenseChecker(options = {}) {
    const {
        directory,
        dev = false
    } = options;

    if (!directory) {
        throw new Error('You must specify the directory where license checker should start');
    }

    return new Promise((resolve, reject) => {
        licenseChecker.init({
            start: directory,
            production: !dev,
            json: true,
            customFormat: {
                realPath: true,
                licenseText: false,
                licenseFile: false
            }
        }, (err, licenseInfo) => {
            if (err) reject(err);
            else resolve(licenseInfo);
        });
    });
}
# THIS IS AN AUTOGENERATED FILE. DO NOT EDIT THIS FILE DIRECTLY.
# yarn lockfile v1

dedent@^0.7.0:
  version "0.7.0"
  resolved "https://registry.yarnpkg.com/dedent/-/dedent-0.7.0.tgz#2495ddbaf6eb874abb0e1be9df22d2e5a544326c"
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 */

import { includes } from 'lodash';

/***/

/*
 * Function to do the work of checking license for cluster alerts feature support
 * Can be used to power XpackInfo license check results as well as checking license of monitored clusters
 *
 * @param {String} type License type if a valid license. {@code null} if license was deleted.
 * @param {Boolean} active Indicating that the overall license is active
 * @param {String} clusterSource 'monitoring' or 'production'
 * @param {Boolean} watcher {@code true} if Watcher is provided (or if its availability should not be checked)
 */
export function checkLicense(type, active, clusterSource, watcher = true) {
  // return object, set up with safe defaults
  const licenseInfo = {
    clusterAlerts: { enabled: false }
  };

  // Disabled because there is no license
  if (!type) {
    return Object.assign(licenseInfo, {
      message: `Cluster Alerts are not displayed because the [${clusterSource}] cluster's license could not be
determined.`
    });
  }

  // Disabled because the license type is not valid (basic)
  if (!includes(['trial', 'standard', 'gold', 'platinum'], type)) {
    return Object.assign(licenseInfo, {
      message: `Cluster Alerts are not displayed if Watcher is disabled or the [${clusterSource}] cluster's current
license is basic.`
    });
  }

  // Disabled because the license is inactive
  if (!active) {

return Object.assign(licenseInfo, {
    message: `Cluster Alerts are not displayed because the [${clusterSource}] cluster's current license [${type}] is not active.`,
});

// Disabled because Watcher is not enabled (it may or may not be available)
if (!watcher) {
    return Object.assign(licenseInfo, { message: 'Cluster alerts is not enabled because Watcher is disabled.' });
}

return Object.assign(licenseInfo, { clusterAlerts: { enabled: true } });

/**
 * Function to "generate" license check results for `{xpackInfo}`.
 *
 * @param {Object} xpackInfo license information for the _Monitoring_ cluster
 * @param {Function} _checkLicense Method exposed for easier unit testing
 * @returns {Object} Response from `{checker}`
 */
export function checkLicenseGenerator(xpackInfo, _checkLicense = checkLicense) {
    let type;
    let active = false;
    let watcher = false;

    if (xpackInfo && xpackInfo.license) {
        const watcherFeature = xpackInfo.feature('watcher');

        if (watcherFeature) {
            watcher = watcherFeature.isEnabled();
        }

        type = xpackInfo.license.getType();
        active = xpackInfo.license.isActive();
    }

    return _checkLicense(type, active, 'monitoring', watcher);
}

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 */

import { connect } from 'react-redux';

import { StartTrial as PresentationComponent } from './start_trial';
import { loadTrialStatus, startLicenseTrial } from '../../../store/actions/start_trial';
import { shouldShowStartTrial } from '../../../store/reducers/licenseManagement';

const mapStateToProps = (state) => {
  return {
    shouldShowStartTrial: shouldShowStartTrial(state),
  };
};

const mapDispatchToProps = {
  loadTrialStatus,
  startLicenseTrial
};

export const StartTrial = connect(mapStateToProps, mapDispatchToProps)(PresentationComponent);

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 */

import { RequestTrialExtension } from '../public/sections/license_dashboard/request_trial_extension';
import { createMockLicense, getComponent } from './util';

describe('RequestTrialExtension component', () => {
  test('should not display when license is active and trial has not been used', () => {
    const rendered = getComponent(
      {
        trialStatus: {
          canStartTrial: true,
        },
        license: createMockLicense('trial')
      },
      RequestTrialExtension
    );
    const html = rendered.html();
    expect(html).toBeNull();
  });

test('should display when license is active and trial has been used', () => {
    const rendered = getComponent(
      {
        trialStatus: {
          canStartTrial: false,
        },
        license: createMockLicense('trial')
      },
      RequestTrialExtension
    );
  });

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const html = rendered.html();
expect(html).not.toBeNull();
expect(html).toMatchSnapshot();
});
test('should not display when license is not active and trial has not been used', () => {
    const rendered = getComponent(
        {
            trialStatus: {
                canStartTrial: true
            },
            license: createMockLicense('trial', 0)
        },
        RequestTrialExtension
    );
    const html = rendered.html();
    expect(html).toBeNull();
});
test('should display when license is not active and trial has been used', () => {
    const rendered = getComponent(
        {
            trialStatus: {
                canStartTrial: false
            },
            license: createMockLicense('trial', 0)
        },
        RequestTrialExtension
    );
    const html = rendered.html();
    expect(html).not.toBeNull();
    expect(html).toMatchSnapshot();
});
test('should display when platinum license is not active and trial has been used', () => {
    const rendered = getComponent(
        {
            trialStatus: {
                canStartTrial: false
            },
            license: createMockLicense('platinum', 0)
        },
        RequestTrialExtension
    );
    const html = rendered.html();
    expect(html).not.toBeNull();
    expect(html).toMatchSnapshot();
});
test('should not display when platinum license is active and trial has been used', () => {
    const rendered = getComponent(
        {
            trialStatus: {
                canStartTrial: false
            },
            license: createMockLicense('platinum', 0)
        },
        RequestTrialExtension
    );
    const html = rendered.html();
    expect(html).not.toBeNull();
    expect(html).toMatchSnapshot();
});
trailStatus: {
  canStartTrial: false
},
license: createMockLicense('platinum')
), RequestTrialExtension);
const html = rendered.html();
expect(html).toBeNull();
});
*/
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*/
export function checkLicense(xpackLicenseInfo) {
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      showAppLink: true,
      enableAppLink: false,
      message: 'Graph is unavailable - license information is not available at this time.'
    };
  }

  const graphFeature = xpackLicenseInfo.feature('graph');
  if (!graphFeature.isEnabled()) {
    return {
      showAppLink: false,
      enableAppLink: false,
      message: 'Graph is unavailable'
    };
  }

  const isLicenseActive = xpackLicenseInfo.license.isActive();
  let message;
  if (!isLicenseActive) {
    message = `Graph is unavailable - license has expired.`;
  }

  if (xpackLicenseInfo.license.isOneOf(['trial', 'platinum'])) {
    return {
      showAppLink: true,
      enableAppLink: isLicenseActive,
      message
    };
  }

  if (isLicenseActive) {
    message = 'Graph is unavailable - license has expired.';
  }

  return {
    showAppLink: true,
    enableAppLink: isLicenseActive,
    message
  };

// Open Source Used In Cisco VIM 3.4.312779
message = 'Graph is unavailable for the current ${xpackLicenseInfo.license.getType()} license. Please upgrade your license.';
return {
    showAppLink: false,
    enableAppLink: false,
    message
};

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*/

export { LICENSE_WHITELIST, LICENSE_OVERRIDES } from './config';
export { assertLicensesValid } from './valid';

import { get } from 'lodash';
import { checkParam } from './error_missing_required';
import { createQuery } from './create_query';
import { ElasticsearchMetric } from './metrics';

export function getClusterLicense(req, esIndexPattern, clusterUuid) {
    checkParam(esIndexPattern, 'esIndexPattern in getClusterLicense');

    const params = {
        index: esIndexPattern,
        size: 1,
    }
ignoreUnavailable: true,
filterPath: 'hits.hits._source.license',
body: {
    sort: { timestamp: { order: 'desc' } },
    query: createQuery({
        type: 'cluster_stats',
        clusterUuid,
        metric: ElasticsearchMetric.getMetricFields()
    })
}
}
);

const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('monitoring');
return callWithRequest(req, 'search', params)
  .then(response => {
    return get(response, 'hits.hits[0]._source.license', {});
  });
*/

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*/

export { AddLicense } from './add_license';
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*/

export { licenseManagementStore } from './store';
{
  "xpack.license.post": {
    "data_autocomplete_rules": {
      "licenses": []
    }
  }
}
/
*/

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*
const describeInvalidLicenses = getInvalid => pkg => (  
    `  
    ${pkg.name}  
    version: ${pkg.version}  
    all licenses: ${pkg.licenses}  
    invalid licenses: ${getInvalid(pkg.licenses).join(', ')}  
    path: ${pkg.relative}  
    `  
);

/**  
* When given a list of packages and the valid license  
* options, either throws an error with details about  
* violations or returns undefined.  
*  
* @param {Object} [options={}]  
* @property {Array<Package>} options.packages List of packages to check, see  
*                                              getInstalledPackages() in ../packages  
* @property {Array<string>} options.validLicenses  
* @return {undefined}  
*/

export function assertLicensesValid(options = {}) {
    const {  
        packages,  
        validLicenses  
    } = options;  

    if (!packages || !validLicenses) {  
        throw new Error('packages and validLicenses options are required');  
    }

    const getInvalid = licenses => (  
        licenses.filter(license => !validLicenses.includes(license))  
    );

    const isPackageInvalid = pkg => (  
        !pkg.licenses.length || getInvalid(pkg.licenses).length > 0  
    );
const invalidMsgs = packages
    .filter(isPackageInvalid)
    .map(describeInvalidLicenses(getInvalid));

if (invalidMsgs.length) {
    throw new Error(`Non-conforming licenses: ${invalidMsgs.join('')}`);
}

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 */

import { checkLicense, checkLicenseGenerator } from '../check_license';
import expect from 'expect.js';
import sinon from 'sinon';

describe('Monitoring Check License', () => {
    describe('License undeterminable', () => {
        it('null active license - results false with a message', () => {
            const result = checkLicense(null, true, 'test-cluster-abc');
            expect(result).to.eql({
                clusterAlerts: { enabled: false },
                message: `Cluster Alerts are not displayed because the [test-cluster-abc] cluster's license could not be determined.`
            });
        });
    });

    describe('Inactive license', () => {
        it('platinum inactive license - results false with a message', () => {
            const result = checkLicense('platinum', false, 'test-cluster-def');
            expect(result).to.eql({
                clusterAlerts: { enabled: false },
                message: `Cluster Alerts are not displayed because the [test-cluster-def] cluster's current license [platinum] is not active.`
            });
        });
    });

    describe('Active license', () => {
        describe('Unsupported license types', () => {
            it('basic active license - results false with a message', () => {
                const result = checkLicense('basic', true, 'test-cluster-ghi');
                expect(result).to.eql({
                    clusterAlerts: { enabled: false },
                    message: `Cluster Alerts are not displayed because the [test-cluster-ghi] cluster's license is not supported.`
                });
            });
        });
    });
});
describe('Supported license types', () => {
  it('standard active license - results true with no message', () => {
    const result = checkLicense('standard', true, 'test-cluster-jkl');
    expect(result).to.eql({
      clusterAlerts: { enabled: true }
    });
  });

  it('gold active license - results true with no message', () => {
    const result = checkLicense('gold', true, 'test-cluster-mno');
    expect(result).to.eql({
      clusterAlerts: { enabled: true }
    });
  });

  it('platinum active license - results true with no message', () => {
    const result = checkLicense('platinum', true, 'test-cluster-pqr');
    expect(result).to.eql({
      clusterAlerts: { enabled: true }
    });
  });
});

describe('Watcher is not enabled', () => {
  it('platinum active license - watcher disabled - results false with message', () => {
    const result = checkLicense('platinum', true, 'test-cluster-pqr', false);
    expect(result).to.eql({
      clusterAlerts: { enabled: false },
      message: 'Cluster alerts is not enabled because Watcher is disabled.'
    });
  });
});

describe('XPackInfo checkLicenseGenerator', () => {
  it('with deleted license', () => {
    const expected = 123;
    const checker = sinon.stub().returns(expected);
    const result = checkLicenseGenerator(null, checker);
    expect(result).to.be(expected);
    expect(checker.withArgs(undefined, false, 'monitoring', false).called).to.be(true);
  });
});
it('license without watcher', () => {
  const expected = 123;
  const xpackInfo = {
    license: {
      getType: () => 'fake-type',
      isActive: () => true
    },
    feature: () => null
  };
  const checker = sinon.stub().returns(expected);
  const result = checkLicenseGenerator(xpackInfo, checker);

  expect(result).to.be(expected);
  expect(checker.withArgs('fake-type', true, 'monitoring', false).called).to.be(true);
});

it('mock license with watcher', () => {
  const expected = 123;
  const feature = sinon.stub().withArgs('watcher').returns({ isEnabled: () => true });
  const xpackInfo = {
    license: {
      getType: () => 'another-type',
      isActive: () => true
    },
    feature
  };
  const checker = sinon.stub().returns(expected);
  const result = checkLicenseGenerator(xpackInfo, checker);

  expect(result).to.be(expected);
  expect(feature.withArgs('watcher').calledOnce).to.be(true);
  expect(checker.withArgs('another-type', true, 'monitoring', true).called).to.be(true);
});

it('platinum license with watcher', () => {
  const xpackInfo = {
    license: {
      getType: () => 'platinum',
      isActive: () => true
    },
    feature: () => {
      return {
        isEnabled: () => true
      };
    }
  };
});
const result = checkLicenseGenerator(xpackInfo);

expect(result).to.eql({ clusterAlerts: { enabled: true } });

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 */

import React from 'react';
import {
  EuiButton,
  EuiFlexItem,
  EuiCard,
  EuiLink,
  EuiOverlayMask,
  EuiConfirmModal,
  EuiText
} from '@elastic/eui';

import { ELASTIC_WEBSITE_URL, DOC_LINK_VERSION } from 'ui/documentation_links';

const esBase = `${ELASTIC_WEBSITE_URL}guide/en/elasticsearch/reference/${DOC_LINK_VERSION}`;
const securityDocumentationLink = `${esBase}/security-settings.html`;

export class StartTrial extends React.PureComponent {
  constructor(props) {
    super(props);
    this.state = { showConfirmation: false };  
  }
  componentWillMount() {
    this.props.loadTrialStatus();
  }

  acknowledgeModal() {
    const { showConfirmation } = this.state;
    if (!showConfirmation) {
      return null;
    }
    const { startLicenseTrial } = this.props;
    return (<EuiOverlayMask>
      <EuiConfirmModal
        title="Open Source Used In Cisco VIM 3.4.312786"
This trial is for the full set of [' ']

Platinum features

of the Elastic Stack. You'll get immediate access to:

- Machine learning
- Alerting
- Graph capabilities
- JDBC connectivity for SQL

Security features, such as authentication (native, AD/LDAP, SAML, PKI), role-based access control, and auditing, require configuration. See the [' ']
documentation

for instructions.

By starting this trial, you agree that it is subject to these[' ']
terms and conditions.


render() {
    const { shouldShowStartTrial } = this.props;
    if (!shouldShowStartTrial) {
        return null;
    }
    const description = (  
        <span>
            Experience what security, machine learning, and all our other{' '}[
            <EuiLink
                href="https://www.elastic.co/subscriptions/xpack"
                target="_blank"
            >
                Platinum features
            </EuiLink>[
            have to offer.
        </span>
    );

    const footer = (  
        <EuiButton data-test-subj="startTrialButton" onClick={() => this.setState({ showConfirmation: true })}>
            Start trial
        </EuiButton>
    );
    return (  
        <EuiFlexItem>
            {this.acknowledgeModal()}
            <EuiCard
                title="Start a 30-day trial"
                description={description}
                footer={footer}
            />
        </EuiFlexItem>
    );
}

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 */

import { AddLicense } from './public/sections/license_dashboard/add_license';
import { createMockLicense, getComponent } from './util';

describe('AddLicense component when license is active', () => {
test('should display correct verbiage', () => {
    const rendered = getComponent({
        license: createMockLicense('basic')
    }, AddLicense);
    expect(rendered.html()).toMatchSnapshot();
});

describe('AddLicense component when license is expired', () => {
    test('should display with correct verbiage', () => {
        const rendered = getComponent({
            license: createMockLicense('platinum', 0)
        }, AddLicense);
        expect(rendered.html()).toMatchSnapshot();
    });
});

const messages = {
    getUnavailable: () => {
        return 'You cannot use Reporting because license information is not available at this time.';
    },
    getExpired: (license) => {
        return `You cannot use Reporting because your ${license.getType()} license has expired.`;
    }
};

const makeManagementFeature = (exportTypes) => {
    return {
        id: 'management',
        checkLicense: (license) => {
            if (!license) {
                return {
                    showLinks: true,
                    enableLinks: false,
                    message: messages.getUnavailable()
                };
            }
        }
    }
};
if (!license.isActive()) {
    return {
        showLinks: true,
        enableLinks: false,
        message: messages.getExpired(license),
    };
}

const validJobTypes = exportTypes
    .filter(exportType => license.isOneOf(exportType.validLicenses))
    .map(exportType => exportType.jobType);

return {
    showLinks: validJobTypes.length > 0,
    enableLinks: validJobTypes.length > 0,
    jobTypes: validJobTypes
};

const makeExportTypeFeature = (exportType) => {
    return {
        id: exportType.id,
        checkLicense: (license) => {
            if (!license) {
                return {
                    showLinks: true,
                    enableLinks: false,
                    message: messages.getUnavailable(),
                };
            }
            if (!license.isOneOf(exportType.validLicenses)) {
                return {
                    showLinks: false,
                    enableLinks: false,
                    message: `Your ${license.getType()} license does not support ${exportType.name} Reporting. Please upgrade your license.``
                };
            }
            if (!license.isActive()) {
                return {
                    showLinks: true,
                    enableLinks: false,
                    message: messages.getExpired(license),
                };
            }
        }
    };

if (!license.isOneOf(exportType.validLicenses)) {
    return {
        showLinks: false,
        enableLinks: false,
        message: `Your ${license.getType()} license does not support ${exportType.name} Reporting. Please upgrade your license.`
    };
}

if (!license.isActive()) {
    return {
        showLinks: true,
        enableLinks: false,
        message: messages.getExpired(license),
    };
}
export function checkLicenseFactory(exportTypesRegistry) {
  return function checkLicense(xpackLicenseInfo) {
    const license = xpackLicenseInfo === null || !xpackLicenseInfo.isAvailable() ? null : xpackLicenseInfo.license;
    const exportTypes = Array.from(exportTypesRegistry.getAll());
    const reportingFeatures = [...exportTypes.map(makeExportTypeFeature), makeManagementFeature(exportTypes)];
    return reportingFeatures.reduce((result, feature) => {
      result[feature.id] = feature.checkLicense(license);
      return result;
    }, {});
  };
}

Notice me!

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 */

import { get } from 'lodash';

/**
 * Determine if an API for Cluster Alerts should respond based on the license and configuration of the monitoring
 * cluster.
 * 
 * Note: This does not guarantee that any production cluster has a valid license; only that Cluster Alerts in general
 * can be used!
 * 
 * @param {Object} server Server object containing config and plugins
 * @return {Boolean} [@code true] to indicate that cluster alerts can be used.
 */

export function verifyMonitoringLicense(server) {
  const config = server.config();
  // if cluster alerts are enabled, then ensure that we can use it according to the license
if (config.get('xpack.monitoring.cluster_alerts.enabled')) {
    const xpackInfo = get(server.plugins.monitoring, 'info');
    if (xpackInfo) {
        const monitoringCluster = xpackInfo.feature('monitoring').getLicenseCheckResults();

        return {
            enabled: monitoringCluster.clusterAlerts.enabled,
            message: monitoringCluster.message
        };
    }
    return {
        enabled: false,
        message: 'Status of Cluster Alerts feature could not be determined.'
    };
}
return {
    enabled: false,
    message: 'Cluster Alerts feature is disabled.'
};
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 */

export { StartTrial } from './start_trial.container';
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 */

import { mount } from 'enzyme';
import React from 'react';
import { Provider } from 'react-redux';
import { uploadLicense } from '../public/store/actions/upload_license';
import { licenseManagementStore } from '../public/store/store';
import { UploadLicense } from '../public/sections/upload_license';
import { BASE_PATH } from '../common/constants';
import {
    UPLOAD_LICENSE_EXPIRED,
    UPLOAD_LICENSE_REQUIRES_ACK,
    UPLOAD_LICENSE_SUCCESS,
    UPLOAD_LICENSE_TLS_NOT_ENABLED,
    UPLOAD_LICENSE_INVALID,
import sinon from 'sinon';
window.location.reload = () => {};
let server = null;
let store = null;
let component = null;
const services = {
    kbnUrl: {
        change: jest.fn()
    },
autoLogout: () => {},
xPackInfo: {
    refresh: jest.fn(),
    get: () => {
        return { license: { type: 'basic' } };
    }
}
};

describe('UploadLicense', () => {
    beforeEach(() => {
        server = sinon.fakeServer.create();
        server.respondImmediately = true;
        store = licenseManagementStore({}, services);
        component = (<Provider store={store}>
            <UploadLicense />
        </Provider>);
    });
    afterEach(() => {
        server.restore();
        services.xPackInfo.refresh.mockReset();
        services.kbnUrl.change.mockReset();
    });
    it('should display an error when submitting invalid JSON', async () => {
        const rendered = mount(component);
        store.dispatch(uploadLicense('INVALID', 'trial'));
        rendered.update();
        expect(rendered).toMatchSnapshot();
    });
    it('should display an error when ES says license is invalid', async () => {
        const rendered = mount(component);
        const invalidLicense = JSON.stringify({ license: { type: 'basic' } });
        server.respond(UPLOAD_LICENSE_INVALID);
        await uploadLicense(invalidLicense)(store.dispatch, null, services);
        rendered.update();
    });
it('should display an error when ES says license is expired', async () => {
  const rendered = mount(component);
  const invalidLicense = JSON.stringify({ license: { type: 'basic' } });
  server.respond(UPLOAD_LICENSE_EXPIRED);
  await uploadLicense(invalidLicense)(store.dispatch, null, services);
  rendered.update();
  expect(rendered).toMatchSnapshot();
});

it('should display a modal when license requires acknowledgement', async () => {
  const unacknowledgedLicense = JSON.stringify({
    license: { type: 'basic' }
  });
  server.respond(UPLOAD_LICENSE_REQUIRES_ACK);
  await uploadLicense(unacknowledgedLicense, 'trial')(store.dispatch, null, services);
  const rendered = mount(component);
  expect(rendered).toMatchSnapshot();
});

it('should refresh xpack info and navigate to BASE_PATH when ES accepts new license', async () => {
  const validLicense = JSON.stringify({ license: { type: 'basic' } });
  server.respond(UPLOAD_LICENSE_SUCCESS);
  await uploadLicense(validLicense)(store.dispatch, null, services);
  expect(services.xPackInfo.refresh).toHaveBeenCalled();
  expect(services.kbnUrl.change).toHaveBeenCalledWith(BASE_PATH);
});

it('should display error when ES returns error', async () => {
  const rendered = mount(component);
  const license = JSON.stringify({ license: { type: 'basic' } });
  server.respond(UPLOAD_LICENSE_TLS_NOT_ENABLED);
  await uploadLicense(license)(store.dispatch, null, services);
  rendered.update();
  expect(rendered).toMatchSnapshot();
});

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*/

import expect from 'expect.js';
import { set } from 'lodash';
import sinon from 'sinon';
import { checkLicense } from '../check_license';

describe('check_license: ', function () {

  let mockLicenseInfo;
  let licenseCheckResult;

  beforeEach(() => {
    mockLicenseInfo = {
      isAvailable: () => true
    };
  });

  describe('mockLicenseInfo is not set', () => {
    beforeEach(() => {
      mockLicenseInfo = null;
      licenseCheckResult = checkLicense(mockLicenseInfo);
    });

    it ('should set showAppLink to true', () => {
      expect(licenseCheckResult.showAppLink).to.be(true);
    });

    it ('should set enableAppLink to false', () => {
      expect(licenseCheckResult.enableAppLink).to.be(false);
    });
  });

  describe('mockLicenseInfo is set but not available', () => {
    beforeEach(() => {
      mockLicenseInfo = {
        isAvailable: () => false
      };
      licenseCheckResult = checkLicense(mockLicenseInfo);
    });

    it ('should set showAppLink to true', () => {
      expect(licenseCheckResult.showAppLink).to.be(true);
    });

    it ('should set enableAppLink to false', () => {
      expect(licenseCheckResult.enableAppLink).to.be(false);
    });
  });

  describe('graph is disabled in Elasticsearch', () => {
    beforeEach(() => {
      set(mockLicenseInfo, 'feature', sinon.stub().withArgs('graph').returns({ isEnabled: () => false }));
      licenseCheckResult = checkLicense(mockLicenseInfo);
    });

    it ('should set showAppLink to true', () => {
      expect(licenseCheckResult.showAppLink).to.be(true);
    });

    it ('should set enableAppLink to false', () => {
      expect(licenseCheckResult.enableAppLink).to.be(false);
    });
  });
it ('should set showAppLink to false', () => {
  expect(licenseCheckResult.showAppLink).to.be(false);
});

describe('graph is enabled in Elasticsearch', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'feature', sinon.stub().withArgs('graph').returns({ isEnabled: () => true }));
  });

  describe('& license is trial or platinum', () => {
    beforeEach(() => {
      set(mockLicenseInfo, 'license.isOneOf', sinon.stub().withArgs([ 'trial', 'platinum' ]).returns(true));
      set(mockLicenseInfo, 'license.getType', () => 'trial');
    });

    describe('& license is active', () => {
      beforeEach(() => {
        licenseCheckResult = checkLicense(mockLicenseInfo);
      });

      it ('should set showAppLink to true', () => {
        expect(licenseCheckResult.showAppLink).to.be(true);
      });

      it ('should set enableAppLink to true', () => {
        expect(licenseCheckResult.enableAppLink).to.be(true);
      });
    });

    describe('& license is expired', () => {
      beforeEach(() => {
        set(mockLicenseInfo, 'license.isActive', () => false);
        licenseCheckResult = checkLicense(mockLicenseInfo);
      });

      it ('should set showAppLink to true', () => {
        expect(licenseCheckResult.showAppLink).to.be(true);
      });

      it ('should set enableAppLink to false', () => {
        expect(licenseCheckResult.enableAppLink).to.be(false);
      });
    });
  });

});
describe('& license is neither trial nor platinum', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'license.isOneOf', () => false);
    set(mockLicenseInfo, 'license.getType', () => 'basic');
    set(mockLicenseInfo, 'license.isActive', () => true);
    licenseCheckResult = checkLicense(mockLicenseInfo);
  });

  it('should set showAppLink to false', () => {
    expect(licenseCheckResult.showAppLink).to.be(false);
  });
});

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 */

import { resolve } from 'path';

import expect from 'expect.js';

import { assertLicensesValid } from '../valid';

const ROOT = resolve(__dirname, '../../../../');
const NODE_MODULES = resolve(ROOT, './node_modules');

const PACKAGE = {
  name: '@elastic/httpolyglot',
  version: '0.1.2-elasticpatch1',
  licenses: ['MIT'],
  directory: resolve(NODE_MODULES, '@elastic/httpolyglot'),
describe('tasks/lib/licenses', () => {
    describe('assertLicensesValid()', () => {
        it('returns undefined when package has valid license', () => {
            expect(assertLicensesValid({
                packages: [PACKAGE],
                validLicenses: [...PACKAGE.licenses]
            })).to.be(undefined);
        });

        it('throw an error when the packages license is invalid', () => {
            expect(() => {
                assertLicensesValid({
                    packages: [PACKAGE],
                    validLicenses: ['not ' + PACKAGE.licenses[0]]
                });
            }).toThrowError(PACKAGE.name);
        });

        it('throws an error when the package has no licenses', () => {
            expect(() => {
                assertLicensesValid({
                    packages: [
                        ...
                    ],
                    validLicenses: [...PACKAGE.licenses]
                });
            }).toThrowError(PACKAGE.name);
        });

        it('includes the relative path to packages in error message', () => {
            try {
                assertLicensesValid({
                    packages: [PACKAGE],
                    validLicenses: ['none']
                });
           (try block)
            throw new Error('expected assertLicensesValid() to throw');
            } catch (error) {
            expect(error.message).to.contain(PACKAGE.relative);
            expect(error.message).to.not.contain(PACKAGE.directory);
            }
        });
    });
});
import React, { Fragment } from 'react';

import {
  EuiIcon,
  EuiFlexGroup,
  EuiFlexItem,
  EuiText,
  EuiTitle,
  EuiSpacer,
} from '@elastic/eui';

export class LicenseStatus extends React.PureComponent {
  render() {
    const { isExpired, status, type, expiryDate } = this.props;
    const typeTitleCase = type.charAt(0).toUpperCase() + type.substr(1).toLowerCase();
    let icon;
    let title;
    let message;
    if (isExpired) {
      icon = <EuiIcon color="danger" type="alert" />;
      message = (
        <Fragment>
          Your license expired on <strong>{expiryDate}</strong>
        </Fragment>
      );
      title = `Your ${typeTitleCase} license has expired`;
    } else {
      icon = <EuiIcon color="success" type="checkInCircleFilled" />;
      message = expiryDate ? (
        <Fragment>
          Your license will expire on <strong>{expiryDate}</strong>
        </Fragment>
      ) : (null);
      title = `Your ${typeTitleCase} license is ${status.toLowerCase()}`;
    }
    return (null);
  }
}
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import { verifyMonitoringLicense } from '../verify_monitoring_license';
import expect from 'expect.js';
import sinon from 'sinon';

describe('Monitoring Verify License', () => {
  describe('Disabled by Configuration', () => {
    const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(false);
    const server = { config: sinon.stub().returns({ get }) };

    it('verifyMonitoringLicense returns false without checking the license', () => {
      const verification = verifyMonitoringLicense(server);

      expect(verification.enabled).to.be(false);
    });
  });
});
describe('Enabled by Configuration', () => {
  it('verifyMonitoringLicense returns false if enabled by configuration, but not by license', () => {
    const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(true);
    const server = {
      config: sinon.stub().returns({ get }),
      plugins: { monitoring: { info: { } } }
    };
    const getLicenseCheckResults = sinon.stub().returns({ clusterAlerts: { enabled: false }, message: 'failed!!' });
    const feature = sinon.stub().withArgs('monitoring').returns({ getLicenseCheckResults });
    server.plugins.monitoring.info = { feature };
    const verification = verifyMonitoringLicense(server);
    expect(verification.enabled).to.be(false);
    expect(verification.message).to.be('failed!!');
    expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
    expect(feature.withArgs('monitoring').calledOnce).to.be(true);
    expect(getLicenseCheckResults.calledOnce).to.be(true);
  });

  it('verifyMonitoringLicense returns true if enabled by configuration and by license', () => {
    const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(true);
    const server = {
      config: sinon.stub().returns({ get }),
      plugins: { monitoring: { info: { } } }
    };
    const getLicenseCheckResults = sinon.stub().returns({ clusterAlerts: { enabled: true }, message: 'failed!!' });
    const feature = sinon.stub().withArgs('monitoring').returns({ getLicenseCheckResults });
    server.plugins.monitoring.info = { feature };
    const verification = verifyMonitoringLicense(server);
    expect(verification.enabled).to.be(true);
    expect(verification.message).to.be.undefined;
    expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
    expect(feature.withArgs('monitoring').calledOnce).to.be(true);
    expect(getLicenseCheckResults.calledOnce).to.be(true);
  });
});

const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(true);
const server = {
  config: sinon.stub().returns({ get }),
  plugins: { monitoring: undefined } // simulate race condition
};

const verification = verifyMonitoringLicense(server);

expect(verification.enabled).to.be(false);
expect(verification.message).to.be('Status of Cluster Alerts feature could not be determined.');

expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
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export { LicenseDashboard } from './license_dashboard';
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export const UPLOAD_LICENSE_EXPIRED = [
  200,
  { 'Content-Type': 'application/json' },
  '{"acknowledged": "true", "license_status": "expired"}';
];

/* eslint-disable max-len */
export const UPLOAD_LICENSE_REQUIRES_ACK = [
  200,
  { 'Content-Type': 'application/json' },
  `{
    "acknowledged":false,
    "license_status":"valid",
    "acknowledge":
    {
      "message": "This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the \"acknowledge=true\" parameter:",
      "watcher":["Watcher will be disabled"]
  }`;
export const UPLOAD_LICENSE_SUCCESS = [
200,
{ 'Content-Type': 'application/json' },
{"acknowledged": "true", "license_status": "valid"}]
;

export const UPLOAD_LICENSE_INVALID = [
200,
{ 'Content-Type': 'application/json' },
{"acknowledged": "true", "license_status": "invalid"}]
;

export const UPLOAD_LICENSE_TLS_NOT_ENABLED = [
200,
{ 'Content-Type': 'application/json' },
"{
"error":
{
"root_cause":
[
"type":"illegal_state_exception",
"reason":"Can not upgrade to a production license unless TLS is configured or security is disabled"
}],"type":"illegal_state_exception",
"reason":"Can not upgrade to a production license unless TLS is configured or security is disabled"},
"status":500}
];

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import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicenseFactory } from '../check_license';

describe('check_license', function () {

let mockLicenseInfo;
let checkLicense;

beforeEach(() => {

});
mockLicenseInfo = {};
checkLicense = checkLicenseFactory({
  getAll: () => [
    {id: 'test',
     name: 'Test Export Type',
     jobType: 'testJobType'}
  ]
});

describe('license information is not available', () => {
  beforeEach(() => mockLicenseInfo.isAvailable = () => false);

  it('should set management.showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
  });

  it('should set test.showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
  });

  it('should set management.enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(false);
  });

  it('should set test.enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(false);
  });

  it('should set management.jobTypes to undefined', () => {
    expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be(undefined);
  });
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => {set(mockLicenseInfo, 'license.isOneOf', () => true))

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it('should set management.showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
      });
    });
  });

  describe('license information is available', () => {
    beforeEach(() => {
      mockLicenseInfo.isAvailable = () => true;
      set(mockLicenseInfo, 'license.getType', () => 'basic');
    });

    describe('& license is trial, standard, gold, platinum', () => {
      beforeEach(() => {set(mockLicenseInfo, 'license.isOneOf', () => true))

      describe('& license is active', () => {
        beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

        it('should set management.showLinks to true', () => {
          expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
        });
      });
    });
  });
});
it ('should set test.showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
});

it ('should set management.enableLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(true);
});

it ('should set test.enableLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(true);
});

it ('should set management.jobTypes to contain testJobType', () => {
    expect(checkLicense(mockLicenseInfo).management.jobTypes).to.contain('testJobType');
});

describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it ('should set management.showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
    });

    it ('should set test.showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
    });

    it ('should set management.enableLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(false);
    });

    it ('should set test.enableLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(false);
    });

    it ('should set management.jobTypes to undefined', () => {
        expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be(undefined);
    });
});

describe('& license is basic', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

    describe('& license is active', () => {
        beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

        it ('should set test.showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
        });

        it ('should set management.enableLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(true);
        });

        it ('should set test.enableLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(true);
        });

        it ('should set management.jobTypes to undefined', () => {
            expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be(undefined);
        });
    });
});
beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

it ('should set management.showLinks to true', () => {
  expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(false);
});

it ('should set test.showLinks to false', () => {
  expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(false);
});

it('should set management.jobTypes to an empty array', () => {
  expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be.an(Array);
  expect(checkLicense(mockLicenseInfo).management.jobTypes).to.have.length(0);
});

describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it ('should set management.showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
  });

  it ('should set test.showLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
  });

  it ('should set management.jobTypes to undefined', () => {
    expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be.undefined;
  });
  });
});

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import { uiModules } from 'ui/modules';
import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import 'ui/url';
import { LicenseService } from './license_service';

uiModules.get('xpack/watcher')
  .factory('xpackWatcherLicenseService', ($injector) => {
    const $http = $injector.get('$http');
    const Private = $injector.get('Private');
    const xpackInfoService = Private(XPackInfoProvider);
    const kbnUrlService = $injector.get('kbnUrl');
    const $timeout = $injector.get('$timeout');

    return new LicenseService(xpackInfoService, kbnUrlService, $timeout, $http);
  });
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*/
export { LicenseDashboard } from './license_dashboard';
export { UploadLicense } from './upload_license';
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import { createAction } from 'redux-actions';

export const addUploadErrorMessage =
  createAction('LICENSE_MANAGEMENT_ADD_UPLOAD_ERROR_MESSAGE');
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*/
export function checkLicense(xpackLicenseInfo) {
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      showAppLink: true,
      enableAppLink: false,
      message: 'Search Profiler is unavailable - license information is not available at this time.'
    };
  }

  const isLicenseActive = xpackLicenseInfo.license.isActive();
  let message;

  /*
if (!isLicenseActive) {
    message = `Search Profiler is unavailable - license has expired.`;
}

if (xpackLicenseInfo.license.isOneOf([ 'trial', 'basic', 'standard', 'gold', 'platinum' ])) {
    return {
        showAppLink: true,
        enableAppLink: isLicenseActive,
        message
    };
}

message = `Search Profiler is unavailable for the current ${xpackLicenseInfo.license.getType()} license. Please upgrade your license.`;
return {
    showAppLink: false,
    enableAppLink: false,
    message
};

PNG
Open Source Used In Cisco VIM 3.4.312812
import { registerRefreshRoute } from './register_refresh_route';

export function registerLicenseRoutes(server) {
  registerRefreshRoute(server);
}

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 */
export { registerLicenseRoute } from './register_license_route';
export { registerStartBasicRoute } from './register_start_basic_route';
export { registerStartTrialRoutes } from './register_start_trial_routes';
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import { createAction } from 'redux-actions';
import { canStartTrial, startTrial } from '../../lib/es';
import { toastNotifications } from 'ui/notify';

export const trialStatusLoaded = createAction('LICENSE_MANAGEMENT_TRIAL_STATUS_LOADED');

export const loadTrialStatus = () => async dispatch => {
  const trialOK = await canStartTrial();
  dispatch(trialStatusLoaded(trialOK));
};

export const startLicenseTrial = () => async (dispatch, getState, { xPackInfo }) => {
  /*eslint camelcase: 0*/
  const { trial_was_started, error_message } = await startTrial();
  if (trial_was_started) {
    await xPackInfo.refresh();
    // reload necessary to get left nav to refresh with proper links
    window.location.reload();
  } else {
    return toastNotifications.addDanger(error_message);
  }
};
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import React from 'react';
import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import { Notifier, banners } from 'ui/notify';
import chrome from 'ui/chrome';
import { EuiCallOut } from '@elastic/eui';

let licenseHasExpired = true;
let expiredLicenseBannerId;

export function checkLicense(Private, kbnBaseUrl) {
    const xpackInfo = Private(XPackInfoProvider);
    const features = xpackInfo.get('features.ml');

    const licenseAllowsToShowThisPage = features.isAvailable;
    if (!licenseAllowsToShowThisPage) {
        const message = features.message;
        let queryString = `?${Notifier.QS_PARAM_LOCATION}=Machine Learning&`;
        queryString += `${Notifier.QS_PARAM_LEVEL}=error&${Notifier.QS_PARAM_MESSAGE}=${message}`;
        const url = `${chrome.addBasePath(kbnBaseUrl)}#${queryString}`;
        window.location.href = url;
        return Promise.halt();
    }

    licenseHasExpired = features.hasExpired || false;

    // If the license has expired ML app will still work for 7 days and then
    // the job management endpoints (e.g. create job, start datafeed) will be restricted.
    // Therefore we need to keep the app enabled but show an info banner to the user.
    if(licenseHasExpired) {
        const message = features.message;
        if (expiredLicenseBannerId === undefined) {
            // Only show the banner once with no way to dismiss it
            expiredLicenseBannerId = banners.add({
                component: (<EuiCallOut
                    iconType="iInCircle"
                    color="warning"
                    title={message}
                    />
            },);
        }
    }

    return Promise.resolve(features);
}

// a wrapper for checkLicense which doesn't resolve if the license has expired.
// this is used by all create jobs pages to redirect back to the jobs list
// if the user's license has expired.
export function checkLicenseExpired(Private, Promise, kbnBaseUrl, kbnUrl) {
return checkLicense(Private, Promise, kbnBaseUrl)
  .then((features) => {
    if (features.hasExpired) {
      kbnUrl.redirect('/jobs');
      return Promise.reject();
    } else {
      return Promise.resolve(features);
    }
  })
  .catch(() => {
    return Promise.reject();
  });
}

export function getLicenseHasExpired() {
  return licenseHasExpired;
}

export function xpackFeatureProvider(Private) {
  const xpackInfo = Private(XPackInfoProvider);
  function isAvailable(feature) {
    return xpackInfo.get('features.${feature}.isAvailable', false);
  }

  return {
    isAvailable
  };
}

PNG
import React from 'react';

import {
  GuideDemo,
  GuideSandbox,
  GuideSandboxCodeToggle,
}
const html = require('./notice_sandbox.html');

export default props => (
  <GuideSandbox>
    <GuideDemo
      isFullScreen={true}
      html={[html]}
    />
    <GuideSandboxCodeToggle
      source={[{
        type: GuideSectionTypes.HTML,
        code: html,
      }],
      title={props.route.name}
    />
  </GuideSandbox>
);

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import './license_service.factory';

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import React from 'react';

import { EuiFlexItem, EuiCard, EuiLink, EuiButton } from '@elastic/eui';

export const RequestTrialExtension = ({ shouldShowRequestTrialExtension }) => {
  if (!shouldShowRequestTrialExtension) {
    return null;
  }
  const description = (
    <span>
      If you’d like to continuing using security, machine learning, and our
      other awesome{`”`}
      <EuiLink
        href="https://www.elastic.co/subscriptions/xpack"
Platinum features

</EuiLink>, request an extension now.
</span>

); return (<
EuiFlexItem>
<EuiCard
    title="Extend your trial"
    description={description}
    footer={
        <EuiButton
            data-test-subj="extendTrialButton"
            style={
                marginTop: 'auto'
            }
            target="_blank"
            href="https://www.elastic.co/trialextension"
        >
            Extend trial
        </EuiButton>
    }
/> </EuiFlexItem>

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import { combineReducers } from 'redux';
import { license } from './license';
import { uploadStatus } from './upload_status';
import { startBasicStatus } from './start_basic_license_status';
import { uploadErrorMessage } from './upload_error_message';
import { trialStatus } from './trial_status';
import moment from 'moment-timezone';

export const WARNING_THRESHOLD_IN_DAYS = 25;

export const licenseManagement = combineReducers({
    license,
    uploadStatus,
    uploadErrorMessage,
    trialStatus,
    startBasicStatus
});
export const getLicense = state => {
  return state.license;
};

export const getLicenseType = state => {
  return getLicense(state).type;
};

export const getExpirationMillis = state => {
  return getLicense(state).expiryDateInMillis;
};

export const getExpirationDate = state => {
  // basic licenses do not expire
  if (getLicenseType(state) === 'basic') {
    return null;
  }
  const expirationMillis = getExpirationMillis(state);
  if (expirationMillis) {
    return moment.tz(expirationMillis(state), moment.tz.guess());
  } else {
    return null;
  }
};

export const getExpirationDateFormatted = state => {
  const expirationDate = getExpirationDate(state);
  return expirationDate ? expirationDate.format('LLL z') : null;
};

export const isExpired = state => {
  return new Date().getTime() > getExpirationMillis(state);
};

export const isImminentExpiration = state => {
  const now = new Date();
  const expirationDate = getExpirationDate(state);
  return (expirationDate && expirationDate.isAfter(now) &&
    expirationDate.diff(now, 'days') <= WARNING_THRESHOLD_IN_DAYS
  );
};

export const shouldShowRevertToBasicLicense = state => {
  const { type } = getLicense(state);
  return type === 'trial' || isImminentExpiration(state) || isExpired(state);
export const uploadNeedsAcknowledgement = state => {
  return !!state.uploadStatus.acknowledge;
};

export const isApplying = state => {
  return !!state.uploadStatus.applying;
};

export const uploadMessages = state => {
  return state.uploadStatus.messages;
};

export const isInvalid = state => {
  return !!state.uploadStatus.invalid;
};

export const getUploadErrorMessage = state => {
  return state.uploadErrorMessage;
};

export const shouldShowStartTrial = state => {
  const licenseType = getLicenseType(state);
  return (state.trialStatus.canStartTrial &&
  licenseType !== 'trial' &&
  // don't show for platinum unless it is expired
  (licenseType !== 'platinum' || isExpired(state))
);}

export const shouldShowRequestTrialExtension = state => {
  if (state.trialStatus.canStartTrial) {
    return false;
  }
  const { type } = getLicense(state);
  return type !== 'platinum' || isExpired(state);
};

export const startTrialError = state => {
  return state.trialStatus.startTrialError;
};

export const startBasicLicenseNeedsAcknowledgement = state => {
  return !!state.startBasicStatus.acknowledge;
};
export const getStartBasicMessages = state => {
  return state.startBasicStatus.messages;
};

{
  "xpack.license.delete": {
"methods": [
  "DELETE"
],
"patterns": [
  "/_xpack/license"
],
"documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}
}

NOTE: Watcher must be enabled to view cluster alerts. If you have a Basic license, Top Cluster Alerts are not displayed.

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*/

const babelEslint = require('babel-eslint');

const { assert, normalizeWhitespace, init } = require('./lib');

module.exports = {
  meta: {
    fixable: 'code',
    schema: [{}
      type: 'object',
      properties: {
        licenses: {
          type: 'array',
          items: {}}}]}
type: 'string'
]
},
],
additionalProperties: false,
]]
},
create: context => {
  return {
    Program(program) {
      const nodeValues = init(context, program, () => {
        const options = context.options[0] || {};
        const licenses = options.licenses;

        assert(!licenses, "licenses" option is required);

        return licenses.map((license, i) => {
          const parsed = babelEslint.parse(license);

          assert(!parsed.body.length, "licenses[$i]" option must only include a single comment");
          assert(parsed.comments.length === 1, "licenses[$i]" option must only include a single comment");

          return normalizeWhitespace(parsed.comments[0].value);
        });
      });
    });
  }

  if (!nodeValues) return;

  const sourceCode = context.getSourceCode();

  sourceCode
    .getAllComments()
    .filter(node => {
      nodeValues.find(nodeValue => (
        normalizeWhitespace(node.value) === nodeValue
      ))
    })
    .forEach(node => {
      context.report({
        node,
        message: 'Remove outdated license header.',
        fix(fixer) {
          return fixer.remove(node);
        }
      });
    });
import React from 'react';
import { toastNotifications } from 'ui/notify';
import { MarkdownSimple } from 'ui/markdown';
import chrome from 'ui/chrome';
import { PLUGIN, ROUTES } from '../../../common/constants';

export class LicenseService {
  constructor(xpackInfoService, kbnUrlService, $timeout, $http) {
    this.$http = $http;
    this.xpackInfoService = xpackInfoService;
    this.kbnUrlService = kbnUrlService;
    this.$timeout = $timeout;
    this.basePath = chrome.addBasePath(ROUTES.API_ROOT);
  }

  get showLinks() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.showLinks`));
  }

  get enableLinks() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.enableLinks`));
  }

  get isAvailable() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.isAvailable`));
  }

  get message() {
    return this.xpackInfoService.get(`features.${PLUGIN.ID}.message`);
  }

  notifyAndRedirect() {
    toastNotifications.addDanger({
      title: <MarkdownSimple>{this.xpackInfoService.get(`features.${PLUGIN.ID}.message`)}</MarkdownSimple>,
      ...});
    this.kbnUrlService.redirect('/management');
  }

/**
 * @param opts Object options
* @param opts.onValid Function To execute when license is valid. Optional; default = noop
* @param opts.onInvalid Function To execute when license is invalid. Optional; default = noop
*/
checkValidity() {
  return new Promise((resolve, reject) => {
    if (this.isAvailable) {
      return resolve();
    }

    this.notifyAndRedirect();
    return reject();
  }, 10); // To allow latest XHR call to update license info
}

refreshLicense() {
  return this.$http.get`${this.basePath}/license/refresh`
    .then(response => {
      return response.data.success;
    });
}
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import React from 'react';
import { LicenseStatus } from './license_status';
import { RevertToBasic } from './revert_to_basic';
import { StartTrial } from './start_trial';
import { AddLicense } from './add_license';
import { RequestTrialExtension } from './request_trial_extension';
import {
  EuiFlexGroup,
  EuiFlexItem,
  EuiSpacer
} from '@elastic/eui';

export const LicenseDashboard = () => {
  return (<div className="licenseManagement__contain">
    <EuiFlexGroup justifyContent="spaceAround">
      <LicenseStatus />
    </EuiFlexGroup>
  </div>)
}
import { handleActions } from 'redux-actions';

import { trialStatusLoaded } from '../actions/start_trial';

export const trialStatus = handleActions({
    [trialStatusLoaded](state, { payload }) {
        return {
            canStartTrial: payload
        },
    }, {}, {});

import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {
    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is not available', () => {
        beforeEach(() => mockLicenseInfo.isAvailable = () => false);

        // Further tests can be added here...
    });

    // Other test cases...
});
it('should set showLinks to true', () => {
  expect(checkLicense(mockLicenseInfo).showAppLink).to.be(true);
});

it('should set enableLinks to false', () => {
  expect(checkLicense(mockLicenseInfo).enableAppLink).to.be(false);
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showAppLink).to.be(true);
      });

      it('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableAppLink).to.be(true);
      });
    });

    describe('& license is expired', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

      it('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showAppLink).to.be(true);
      });

      it('should set enableLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).enableAppLink).to.be(false);
      });
    });

    describe('& license is basic', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

      describe('& license is active', () => {
        beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));
      });
    });
  });
});
describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));
    it ('should set showLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).showAppLink).to.be(false);
    });
});

[[managing-licenses]]
== License Management

When you install {kib}, it generates a Basic license with no expiration date. To start a 30-day trial, view the status of your license, or install a new license go to *Management* and click *License Management*.

The 30-day trial enables you to try out the full set of https://www.elastic.co/subscriptions[Platinum features], including security, machine learning, alerting, graph capabilities, and more. For example, the following pages are added to the side navigation:

**Machine Learning**
**Graph**

The **Management** page gains options related to configuring security, managing {ls} pipelines, and using {watcher}.

At the end of the trial period, the Platinum features operate in a {stack-ov}/license-expiration.html[degraded mode]. You can revert to a Basic license, extend the trial, or purchase a subscription.

For a comparison of the Elastic license levels, see https://www.elastic.co/subscriptions[the subscription page].
/*
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const babelEslint = require('babel-eslint');

const { assert, normalizeWhitespace, init } = require('../lib');

function isHashbang(text) {
    return text.trim().startsWith('#!') && !text.trim().includes('
');
}

module.exports = {
    meta: {
        fixable: 'code',
        schema: [
            {
                type: 'object',
                properties: {
                    license: {
                        type: 'string',
                    },
                },
                additionalProperties: false,
            }
        ],
    },
    create: context => {
        return {
            Program(program) {
                const license = init(context, program, function () {
                    const options = context.options[0] || {};
                    const license = options.license;

                    assert(!!license, '"license" option is required');

                    const parsed = babelEslint.parse(license);
                    assert(!parsed.body.length, '"license" option must only include a single comment');
            }}
        }
    }
}
assert(parsed.comments.length === 1, """license" option must only include a single comment');

return {
    source: license,
    nodeValue: normalizeWhitespace(parsed.comments[0].value)
};
})

if (!license) {
    return;
}

const sourceCode = context.getSourceCode();
const comment = sourceCode.getAllComments().find(node => {
    normalizeWhitespace(node.value) === license.nodeValue
});

// no licence comment
if (!comment) {
    context.report({
        message: 'File must start with a license header',
        loc: {
            start: { line: 1, column: 0 },
            end: { line: 1, column: sourceCode.lines[0].length - 1 }
        },
        fix(fixer) {
            if (isHashbang(sourceCode.lines[0])) {
                return undefined;
            }

            return fixer.replaceTextRange([0, 0], license.source + '\n\n');
        }
    });
    return;
}

// ensure there is nothing before the comment
const sourceBeforeNode = sourceCode.getText().slice(0, sourceCode.getIndexFromLoc(comment.loc.start));
if (sourceBeforeNode.length && !isHashbang(sourceBeforeNode)) {
    context.report({
        node: comment,
        message: 'License header must be at the very beginning of the file',
        fix(fixer) {
            // replace leading whitespace if possible
            if (sourceBeforeNode.trim() === '') {
                return fixer.replaceTextRange([0, sourceBeforeNode.length], '');
            }
        }
    });
}
// inject content at top and remove node from current location
// if removing whitespace is not possible
return [  
    fixer.remove(comment),
    fixer.replaceTextRange([0, 0], license.source + '\n\n'),
];
}
)
};

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 */

export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Logstash pipeline UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      isAvailable: false,
      enableLinks: false,
      isReadOnly: false,
      message: 'You cannot manage Logstash pipelines because license information is not available at this time.'
    };
  }

  const VALID_LICENSE_MODES = [
    'trial',
    'standard',
    'gold',
    'platinum'
  ];

  const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
  const isLicenseActive = xpackLicenseInfo.license.isActive();
  const licenseType = xpackLicenseInfo.license.getType();
  const isSecurityEnabled = xpackLicenseInfo.feature('security').isEnabled();

  // Security is not enabled in ES
  if (!isSecurityEnabled) {
    const message = 'Security must be enabled in order to use Logstash pipeline management features.'
    + ' Please set xpack.security.enabled: true in your elasticsearch.yml.';
    return {

isAvailable: false,
enableLinks: false,
isReadOnly: false,
message
};
}

// License is not valid
if (!isLicenseModeValid) {
    return {
        isAvailable: false,
        enableLinks: false,
        isReadOnly: false,
        message: `Your ${licenseType} license does not support Logstash pipeline management features. Please upgrade your license.`
    };
}

// License is valid but not active, we go into a read-only mode.
if (!isLicenseActive) {
    return {
        isAvailable: true,
        enableLinks: true,
        isReadOnly: true,
        message: `You cannot edit, create, or delete your Logstash pipelines because your ${licenseType} license has expired.`
    };
}

// License is valid and active
return {
    isAvailable: true,
    enableLinks: true,
    isReadOnly: false
};
}

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export { RequestTrialExtension } from './request_trial_extension.container';
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*/
import { handleActions } from 'redux-actions';

import { uploadLicenseStatus } from '../actions/upload_license';

export const uploadStatus = handleActions({
  [uploadLicenseStatus](state, { payload }) {
    return payload;
  }
}, {});

"xpack.license.post_start_basic": {
  "url_params": {
    "acknowledge": "__flag__"
  },
  "methods": [
    "POST"
  ],
  "patterns": [
    "/_xpack/license/start_basic"
  ],
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}

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Posted Date: April 20, 2018

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 */

const { RuleTester } = require('eslint');
const rule = require('../remove_outdated_license_header');
const dedent = require('dedent');

const RULE_NAME = '@kbn/license-header/remove-outdated-license-header';

const ruleTester = new RuleTester({
  parser: 'babel-eslint',
  parserOptions: {
    ecmaVersion: 2015
  }
});

ruleTester.run(RULE_NAME, rule, {
  valid: [
    {
      code: dedent`
      /* license */
      console.log('foo')
    }
  ],
  options: []
});
licenses: [
   '// license'
]
}
],
{
   code: 'dedent'
   // license
   
   console.log('foo')
   
   options: [{
      licenses: [
         '/* license */',
      ]
   }]
}

invalid: [
   // missing license option
   {
      code: 'dedent'
      console.log('foo')
   
      options: [],
      errors: [
      {
         message: ""licenses" option is required",
      }
   ]
   
   // license cannot contain multiple block comments
   {
      code: 'dedent'
      console.log('foo')
   
      options: [{
         licenses: [
            '/* one */ *//* two */' *
         ]
      }],
      errors: [
      {
      
      
      

Open Source Used In Cisco VIM 3.4.312871
message: "'licenses[0]' option must only include a single comment',
};
]
},

// license cannot contain multiple line comments
{
  code: dedent`
  console.log('foo')
`,

  options: [{
    licenses: [
      `// one
      // two`
    ]
  }],
  errors: [
    {
      message: "'licenses[0]' option must only include a single comment',
    }
  ],
},

// license cannot contain expressions
{
  code: dedent`
  console.log('foo')
`,

  options: [{
    licenses: [
      `// old license',
      dedent`
      /* license */
      console.log('hello world');
    ]
  }],
  errors: [
    {
      message: "'licenses[1]' option must only include a single comment',
    }
  ],
},

// license is not a single comment
{
  code: dedent`
console.log('foo')
,

options: [{
  licenses: [  
    'old license',
    'older license',
    "console.log('hello world');"
  ]
}],
errors: [
  {
    message: "licenses[2]" option must only include a single comment",
  }
],
]
}
});
*/

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import { mirrorPluginStatus } from '..',../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '..../common/constants';

export function registerLicenseChecker(server) {
  const xpackMainPlugin = server.plugins.xpack_main;
  const logstashPlugin = server.plugins.logstash;

  mirrorPluginStatus(xpackMainPlugin, logstashPlugin);
  xpackMainPlugin.status.once('green', () => {
    // Register a function that is called whenever the xpack info changes,
    // to re-compute the license check results for this plugin
    xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
  });
} /*
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*/

import { connect } from 'react-redux';

import { RequestTrialExtension as PresentationComponent } from '../request_trial_extension';
import {
    shouldShowRequestTrialExtension
} from '../..../store/reducers/licenseManagement';

const mapStateToProps = state => {
    return {
        shouldShowRequestTrialExtension: shouldShowRequestTrialExtension(state),
    };
};

export const RequestTrialExtension = connect(mapStateToProps)(
    PresentationComponent
);

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import { handleActions } from 'redux-actions';

import { startBasicLicenseStatus, cancelStartBasicLicense } from '../actions/start_basic';

export const startBasicStatus = handleActions({
    [startBasicLicenseStatus](state, { payload }) {
        return payload;
    },
    [cancelStartBasicLicense]() {
        return {};
    }
}, {});

"xpack.license.get": {
    "url_params": {
        "local": "__flag__"
    },
    "methods": [
        "GET"
    ],
    "patterns": [
        "_xpack/license"
    ],
    "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}

Kibana source code with Kibana X-Pack source code
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Pretty handling of logarithmic axes.

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Created by Arne de Laat

Set axis.mode to "log" and make the axis logarithmic using transform:

```
axis: {
  mode: 'log',
  transform: function(v) {v <= 0 ? Math.log(v) / Math.LN10 : null},
  inverseTransform: function(v) {Math.pow(10, v)}
}
```

The transform filters negative and zero values, because those are invalid on logarithmic scales.

This plugin tries to create good looking logarithmic ticks, using unicode superscript characters. If all data to be plotted is between two powers of ten then the default flot tick generator and renderer are used. Logarithmic ticks are places at powers of ten and at half those
values if there are not to many ticks already (e.g. [1, 5, 10, 50, 100]).
For details, see https://github.com/flot/flot/pull/1328

---
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https://github.com/jserz/js_piece

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---
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 */

const { RuleTester } = require('eslint');
const rule = require('../require_license_header');
const dedent = require('dedent');

const RULE_NAME = '@kbn/license-header/require-license-header';

const ruleTester = new RuleTester({
  parser: 'babel-eslint',
  parserOptions: {
    ecmaVersion: 2015
  }
});
ruleTester.run(RULE_NAME, rule, { valid: [}
```javascript
{
  code: `/
  /* license */

  console.log('foo')
  `,

  options: [{ license: '/* license */' }],
},
{
  code: `/
  // license

  console.log('foo')
  `,

  options: [{ license: '// license' }],
}
],

invalid: [
  // missing license option
  {
    code: `/
    
    console.log('foo')
    `,

    options: [],
    errors: [
      {
        message: '"license" option is required',
      }
    ],
  }
  ],

  // content cannot contain multiple block comments
  {
    code: `/
    
    console.log('foo')
    `,

    options: [
      { license: '/* one *//* two */' }
    ],
    errors: [
      {
        message: '"license" option must only include a single comment',
      }
    ],
  }
}`
// content cannot contain multiple line comments
{
    code: dedent`
    console.log('foo')
`,
    options: [
        { license: `// one
// two` }
    ],
    errors: [
        {
            message: "license" option must only include a single comment",
        }
    ],
},

// content cannot contain expressions
{
    code: dedent`
    console.log('foo')
`,
    options: [
        {
            license: dedent`
            /* license */
            console.log('hello world');
        }
    ],
    errors: [
        {
            message: "license" option must only include a single comment",
        }
    ],
},

// content is not a single comment
{
    code: dedent`
    console.log('foo')
`,
    options: [
        { license: `console.log('hello world');` }
    ],
}
errors: [
  {
    message: "license" option must only include a single comment",
  }
],

// missing license header
{
  code: dedent`
  console.log('foo')
`,
  options: [{ license: '/* license */' }],
  errors: [
    {
      message: 'File must start with a license header',
    }
  ],
  output: dedent`
  /* license */
  console.log('foo')
`,
}

// strips newlines before the license comment
{
  code: '\n\n' + dedent`
  /* license */
  
  console.log('foo')
`,
  options: [{ license: '/* license */' }],
  errors: [
    {
      message: 'License header must be at the very beginning of the file',
    }
  ],
  output: dedent`
  /* license */
  
  console.log('foo')
`
// moves license header before other nodes if necessary
{
  code: dedent`*/ not license */
  /* * license */
  console.log('foo')`
,  
  options: [{ license: /* * license */ }],  
  errors: [
    {  
      message: 'License header must be at the very beginning of the file',  
    }  
  ],  

  output: dedent`*/ license */
  /* not license */
  
  console.log('foo')`
,  
}

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import expect from 'expect.js';
import { licensePreRoutingFactory } from '../license_pre_routing_factory';

describe('license_pre_routing_factory', () => {
  describe('#logstashFeaturePreRoutingFactory', () => {
    let mockServer;
    let mockLicenseCheckResults;

    beforeEach(() => {
      mockServer = {
        plugins: {
          xpack_main: {
            info: {
              feature: () => ({  
                getLicenseCheckResults: () => mockLicenseCheckResults
              })
            }
          }
        }
      }
    });

    afterEach(() => {
      mockServer = null;
    });

    it('should do something', () => {
      // Your test code here
    });
  });
});

// Your test code continues here...
module.exports = {  
  checkIsAvailable: function() {  
    return this.checkIsAvailable = {  
      isAvailable: true  
    };  
  }  
};

it('only instantiates one instance per server', () => {  
  const firstInstance = licensePreRoutingFactory(mockServer);  
  const secondInstance = licensePreRoutingFactory(mockServer);  
  expect(firstInstance).to.be(secondInstance);  
});

describe('isAvailable is false', () => {  
  beforeEach(() => {  
    mockLicenseCheckResults = {  
      isAvailable: false  
    };  
  });  

  it('replies with 403', (done) => {  
    const licensePreRouting = licensePreRoutingFactory(mockServer);  
    const stubRequest = {};  
    licensePreRouting(stubRequest, (response) => {  
      expect(response).to.be.an(Error);  
      expect(response.isBoom).to.be(true);  
      expect(response.output.statusCode).to.be(403);  
      done();  
    });  
  });

  describe('isAvailable is true', () => {  
    beforeEach(() => {  
      mockLicenseCheckResults = {  
        isAvailable: true  
      };  
    });  

    it('replies with nothing', (done) => {  
      const licensePreRouting = licensePreRoutingFactory(mockServer);  
      const stubRequest = {};  
      licensePreRouting(stubRequest, (response) => {  
        expect(response).to.be(undefined);  
        done();
      });
    });
  });

  describe('isAvailable is false', () => {  
    beforeEach(() => {  
      mockLicenseCheckResults = {  
        isAvailable: false  
      };  
    });

    it('replies with 403', (done) => {  
      const licensePreRouting = licensePreRoutingFactory(mockServer);  
      const stubRequest = {};  
      licensePreRouting(stubRequest, (response) => {  
        expect(response).to.be.an(Error);  
        expect(response.isBoom).to.be(true);  
        expect(response.output.statusCode).to.be(403);  
        done();  
      });
    });
  });
import React from 'react';

import {
  EuiFlexItem,
  EuiCard,
  EuiButton,
  EuiLink,
  EuiOverlayMask,
  EuiConfirmModal,
  EuiText
} from '@elastic/eui';

export class RevertToBasic extends React.PureComponent {
  cancel = () => {
    this.props.uploadLicenseStatus();
  };

  acknowledgeModal() {
    const {
      needsAcknowledgement,
      messages: [firstLine, ...messages] = [],
      startBasicLicense,
      cancelStartBasicLicense,
      licenseType
    } = this.props;
    if (!needsAcknowledgement) {
      return null;
    }
    return (
      <EuiOverlayMask>
        <EuiConfirmModal
          title="Confirm Revert to Basic License"
          onCancel={cancelStartBasicLicense}
          onConfirm={() => startBasicLicense(licenseType, true)}
          cancelButtonText="Cancel"
          confirmButtonText="Confirm"
        >
          <EuiText>{firstLine}</EuiText>
        </EuiConfirmModal>
      </EuiOverlayMask>
    );
  };
}
<EuiText>
<ul>
{messages.map(message => <li key={message}>{message}</li>))}
</ul>
</EuiText>
</div>
</EuiConfirmModal>
</EuiOverlayMask>

render() {
  const {
    licenseType,
    shouldShowRevertToBasicLicense,
    startBasicLicense
  } = this.props;
  if (!shouldShowRevertToBasicLicense) {
    return null;
  }
  const description = (  
    <span>
      You'll revert to our free features and lose access to security, machine
      learning and other{' '}
      <EuiLink
        href="https://www.elastic.co/subscriptions/xpack"
        target="_blank"
      >
        Platinum features
      </EuiLink>.
    </span>
  );

  return (  
    <EuiFlexItem>
      {this.acknowledgeModal()}
      <EuiCard
        title="Revert to Basic license"
        description={description}
        footer={
          <EuiButton data-test-subj="revertToBasicButton" onClick={() => startBasicLicense(licenseType)}>Revert to Basic</EuiButton>
        }
      />
    </EuiFlexItem>
  );
}
import { handleActions } from 'redux-actions';

import { addUploadErrorMessage } from '../actions/add_error_message';

export const uploadErrorMessage = handleActions({
    [addUploadErrorMessage](state, { payload }) {
        return payload;
    }
}, '');

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 */
require('../src/setup_node_env');
require('../src/dev/notice/cli');
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*/

module.exports = {
  rules: {
    'require-license-header': require('./rules/require_license_header'),
    'remove-outdated-license-header': require('./rules/remove_outdated_license_header'),
  },
};
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import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

  let mockLicenseInfo;
  beforeEach(() => mockLicenseInfo = {});

  describe('license information is undefined', () => {
    beforeEach(() => mockLicenseInfo = undefined);

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });
  });

});
it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
});

it('should set isReadOnly to false', () => {
    expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
});

it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

describe('license information is not available', () => {
    beforeEach(() => mockLicenseInfo.isAvailable = () => false);

    it('should set isAvailable to false', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set enableLinks to false', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
    });

    it('should set isReadOnly to false', () => {
        expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
    });

    it('should set a message', () => {
        expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
});

describe('license information is available', () => {
    beforeEach(() => {
        mockLicenseInfo.isAvailable = () => true;
        set(mockLicenseInfo, 'license.getType', () => 'basic');
    });

    describe('& license is trial, standard, gold, platinum', () => {
        beforeEach(() => {
            set(mockLicenseInfo, 'license.isOneOf', () => true);
            mockLicenseInfo.feature = () => ({ isEnabled: () => true }); // Security feature is enabled
        });

        describe('& license is active', () => {

            Open Source Used In Cisco VIM 3.4.312889
beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

it('should set isAvailable to true', () => {
  expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
});

it ('should set enableLinks to true', () => {
  expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
});

it ('should set isReadOnly to false', () => {
  expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
});

it('should not set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
});

describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to true', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
  });

  it ('should set enableLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
  });

  it ('should set isReadOnly to true', () => {
    expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(true);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });

  describe('& license is basic', () => {
    beforeEach(() => {
      set(mockLicenseInfo, 'license.isOneOf', () => false);
      mockLicenseInfo.feature = () => ({ isEnabled: () => true }); // Security feature is enabled
    });

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

  });

Open Source Used In Cisco VIM 3.4.312890
it('should set isAvailable to false', () => {
  expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
});

it('should set enableLinks to false', () => {
  expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
});

it('should set isReadOnly to false', () => {
  expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
});

it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set isReadOnly to false', () => {
    expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });

  describe('& security is disabled', () => {
    beforeEach(() => {
      mockLicenseInfo.feature = () => ({ isEnabled: () => false }); // Security feature is disabled
      set(mockLicenseInfo, 'license.isOneOf', () => true);
      set(mockLicenseInfo, 'license.isActive', () => true);
    });

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set enableLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
    });

    it('should set isReadOnly to false', () => {
      expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });

  describeEach('& security is disabled', () => {
    beforeEach(() => {
      mockLicenseInfo.feature = () => ({ isEnabled: () => false }); // Security feature is disabled
      set(mockLicenseInfo, 'license.isOneOf', () => true);
      set(mockLicenseInfo, 'license.isActive', () => true);
    });

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });
  });
it('should set enableLinks to false', () => {
  expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
});

it('should set isReadOnly to false', () => {
  expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
});

it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

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export { RevertToBasic } from './revert_to_basic.container';

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 */

import { handleActions } from 'redux-actions';

import { addLicense } from '../actions/add_license';

export const license = handleActions({
  [addLicense](state, { payload }) {
    return payload;
  }
}, { });

"xpack.license.get_trial_status": {
  "methods": [
    "GET"
  ],
  "patterns": [
    "_xpack/license/trial_status"
  ],
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
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The build produces two sets of binaries - one set that falls under the Elastic License and another set that falls under Apache License Version 2.0. The binaries that contain `-oss` in the artifact name are licensed under the Apache License Version 2.0.

```javascript
/*
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 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 * KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */

exports.assert = function assert(truth, message) {
  if (truth) {
    return;
  }

  const error = new Error(message);
  error.failedAssertion = true;
  throw error;
};

exports.normalizeWhitespace = function normalizeWhitespace(string) {
  return string.replace(/\s+/g, ' ');
};

exports.init = function (context, program, initStep) {
```
try {
    return initStep();
} catch (error) {
    if (error.failedAssertion) {
        context.report({
            node: program,
            message: error.message
        });
    } else {
        throw error;
    }
}

1.925 multipart-post 2.0.0

1.926 attrdict 2.0.0
1.926.1 Available under license:

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1.927 mesa-dri-drivers 18.0.5 4.el7_6
1.927.1 Available under license:

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#
# Authors:
#   Ian Romanick <idr@us.ibm.com>

bsd_license_template = """%s
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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."""
/* Legal characters in GLSL are:
 *
 * Identifier characters:
 *
 *  Letters a-z
 *  Letters A-Z
 *  Underscore
 *  Numbers 0-9
 *
 * Punctuation:
 *
 *  Period, plus, dash, slash, asterisk, percent, angled brackets,
 *  square brackets, parentheses, braces, caret, vertical bar,
 *  ampersand, tilde, equals, exclamation point, colon, semicolon,
 *  comma, and question mark
 *
 * Special:
 *
 *  Number sign (as used in preprocessor)
 *
 *  Backslash just before newline as line continuation
 *
 * White space:
 *
 *  Space, horizontal tab, vertical tab, form feed, carriage-return,
 *  and line-feed.
 *
 * [GLSL Language Specification 4.30.6, section 3.1]
 *
 * In this file, we test each of these in turn as follows:
 *
 * Identifier characters: All pass through unchanged
 * Punctuation: All pass through unchanged
 * Special: Empty directive replaced with blank line
 * Line continuation merges two lines, then a blank line
 * Whitespace: 4 horizontal space characters each replaced with space
 * 2 newline characters each replaced with a newline
 *
 */

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_0123456789

*/

Open Source Used In Cisco VIM 3.4.312896
Mesa is a 3-D graphics library with an API which is very similar to that of <a href="https://www.opengl.org/">OpenGL</a>.* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from <a href="https://www.sgi.com/">Silicon Graphics, Inc.</a>(SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

Please do not refer to the library as <em>MesaGL</em> (for legal reasons). It's just <em>Mesa</em> or <em>The Mesa 3-D graphics library</em>.
<p>
* OpenGL is a trademark of &lt;a href="https://www.sgi.com/"
Silicon Graphics Incorporated</a>.
</p>

<h1>License / Copyright Information</h1>

<p>The Mesa distribution consists of several components. Different copyrights
and licenses apply to different components.
For example, the GLX client code uses the SGI Free Software License B, and
some of the Mesa device drivers are copyrighted by their authors.
See below for a list of Mesa's main components and the license for each.
</p>

<p>The core Mesa library is licensed according to the terms of the MIT license.
This allows integration with the XFree86, Xorg and DRI projects.
</p>

<p>The default Mesa license is as follows:
</p>

<pre>
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SOFTWARE.
</pre>

<h1>Attention, Contributors</h1>
When contributing to the Mesa project you must agree to the licensing terms of the component to which you're contributing. The following section lists the primary components of the Mesa distribution and their respective licenses.

Mesa Component Licenses

<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>include/GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>include/GL/glxext.h</td>
<td></td>
</tr>
<tr>
<td>GLX client code</td>
<td>src/glx/</td>
<td>SGI Free Software License B</td>
</tr>
<tr>
<td>C11 thread</td>
<td>include/c11/threads*.h</td>
<td>Boost (permissive)</td>
</tr>
<tr>
<td></td>
<td>emulation</td>
<td></td>
</tr>
</tbody>
</table>

In general, consult the source files for license terms.

Yes to both questions.

Thanks,
Jorge
From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
  anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default
  quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.
Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
   *
   *    "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
   *    Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
   *
   * Only for use in the Mesa project, this point 2 is filled by naming the
   *    technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA
code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.928 openstack-keystone 13.0.2 6.el7ost
1.928.1 Available under license:

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---

fixes:
- >
Originally, to perform GET /projects/{project_id}, the provided policy files required a user to have at least project admin level of permission. They have been updated to allow it to be performed by any user who has a role on the project.

1.929 nss-softokn 3.36.0 5.el7_5
1.929.1 Available under license:

# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@gmail.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@gmail.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@gmail.com>
Preston Jackson <preston.a.jackson@gmail.com>
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Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
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Vlad Losev <vladl@gmail.com>
Zhanyong Wan <wan@google.com>
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.931 pam 1.1.8 22.el7

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support
* Brandon Rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* Studer <theo.studer@gmail.com>
  * IPv6 URL support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* Hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

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  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields
* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadacabaca@gmail.com>
  * Bugfixes
* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ```HTTPResponse.stream()```.
  * Bugfix for ```ConnectionPool.urlopen(release_conn=False)```.
  * Creation of ```HTTPConnectionPool.ResponseCls```.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter
* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@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_force_list retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* [Your name or handle] <[email or website]>
1.939 chardet 3.0.4
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1.942 sigdump 0.2.4

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1.943 lm-sensors-libs 3.4.0
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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.948 tuna 0.13 6.el7

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1.951 python-requests 2.21.0

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1.952 oci-register-machine 0 6.git2b44233.el7

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hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator!

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define void @gen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

CF246:                                   ; preds = %CF246, %BB
  %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248:                                   ; preds = %CF248, %CF246
  store i8 %Sl163, i8* %0
  br label %CF248
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```
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; CHECK-LABEL: test_sitofp_fixed:

    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
```

Open Source Used In Cisco VIM 3.4.313053
Next, convert each to double.

```plaintext
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
```

; CHECK: ret

```plaintext
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}
```

This one is small enough to satisfy isSimple, but still illegally large.

```plaintext
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:

  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>  
  ret <4 x double> %res
}
```

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license you like.
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
    br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [
      i32 1, label %sw.bb.i
      i32 2, label %sw.bb3.i
    ]

  sw.bb.i: ; preds = %while.body
    unreachable

  sw.bb3.i: ; preds = %while.body
    unreachable
exit: ; preds = %while.body
switch i32 undef, label %exit.2 [  
i32 1, label %sw.bb.i17  
i32 2, label %sw.bb3.i20  
]

sw.bb.i17: ; preds = %.exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20: ; preds = %.exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2: ; preds = %.exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1  
br label %while.body

while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
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<tr>
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</tr>
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<tbody>
<tr>
<td>Google Test</td>
<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
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<tr>
<td>ARM contributions</td>
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<tr>
<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
</tr>
<tr>
<td>'zlib' general purpose compression library</td>
<td>version 1.2.3, July 18th, 2005</td>
</tr>
</tbody>
</table>
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@protocol NSObject
@end
@interface NSObject <NSObject> {
}@end
@interface NSObject <NSObject> {
@end
@interfaceNSString:NSObject
@end

void__setRetained(id *ivar, id value, NSObject **o) {
    *ivar = value;
}

staticNSString*_logProcessPrefix = 0;

voidfunc() {
    __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}

@interfaceNSObject(ScopeAdditions)
+
(void)setObjectLogProcessPrefix:(NSString *)processPrefix;
@end

@interfaceDerived:NSObject
@end

@interfaceI
@end

@interfaceForwarClass;
@end

ForwarClass*Test10751015(I*pi, ForwarClass*ns_forward) {
    [piMeth:ns_forward]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type 'id<NSCopying>'}}
}
id <NSCopying> id ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of incompatible type 'ForwarClass *'}}

return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type 'ForwarClass *'}}
}

; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s

; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res

    ; CHECK-LABEL: TestSelect:
    ; CHECK movaps 16(%rsp), %xmm1
    ; CHECK-NEXT callq __subtf3
    ; CHECK-NEXT testl %ebx, %ebx
    ; CHECK-NEXT jg .LBB0_2
    ; CHECK-NEXT # %bb.1:
    ; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
    ; CHECK-NEXT .LBB0_2:
    ; CHECK-NEXT addq $32, %rsp
    ; CHECK-NEXT popq %rbx
    ; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res

    ; CHECK-LABEL: TestFabs:
    ; CHECK andps .LCPI1_0(%rip), %xmm0
    ; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res

    ; CHECK-LABEL: TestCopysign:
    ; CHECK andps .LCPI2_1(%rip), %xmm0
    ; CHECK-NEXT orps %xmm1, %xmm0
    ; CHECK-NEXT retq
}
define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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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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Open Source Used in Cisco VIM 3.4.313140

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Files: *
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          2013, 2014 Thomas H.P. Andersen
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          2014 Susant Sahani
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          1999 Tom Tromey
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Files: src/udev/*
Copyright: 2003-2012 Kay Sievers <kay@vrfy.org>
          2003-2004 Greg Kroah-Hartman <greg@kroah.com>
          2004 Chris Friesen <chris_friesen@sympatico.ca>
          2004, 2009, 2010 David Zeuthen <david@fubar.dk>
          2005, 2006 SUSE Linux Products GmbH
          2003 IBM Corp.
          2007 Hannes Reinecke <hare@suse.de>
          2009 Canonical Ltd.
          2009 Scott James Remnant <scott@netsplit.com>
          2009 Martin Pitt <martin.pitt@ubuntu.com>
          2009 Piter Punk <piterpunk@slackware.com>
          2009, 2010 Lennart Poettering
          2009 Filippo Argiolas <filippo.argiolas@gmail.com>
          2010 Maxim Levitsky
2011 ProFUSION embedded systems
2011 Karel Zak <kzak@redhat.com>
2014 Zhigniew Jdrzejewski-Szmek <zbyszek@in.waw.pl>
2014 David Herrmann <dh.herrmann@gmail.com>
2014 Carlos Garnacho <carlosg@gnome.org>

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Files: src/udev/udev-ctrl.c
src/udev/udevadm-hwdb.c
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The following individuals contributed in part to the Network Time
Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1] Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Altmeier <altmeier@atsoft.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] Pietro Brooks <Pietro.Brooks@cl.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
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26] Jeff Johnson <bjj@chatham.usdesign.com> massive prototyping overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28] <H.Lambermont@chello.nl> ntpswEEP
27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30] Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
modifications, HPUX modifications
30. [33] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
31. [34] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
    GPS clock driver
32. [35] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
    code for Version 3 as specified in RFC-1305
35. [38] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
    Maintenance
36. [39] David L. Mills <mills@udel.edu> Version 4 foundation: clock
    discipline, authentication, precision kernel; clock drivers:
    Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics;
    audio clock drivers: CHU, WWV/H, IRIG
37. [40] Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
38. [41] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
39. [42] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
40. [43] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44] Derek Mulcahy <derek@toybox.demon.co.uk> and [45] Damon
    Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
    maintenance
43. [47] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
    monitoring/trap scripts, statistics file handling
44. [48] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49] Wilfredo Sanchez <wsanchez@apple.com> added support for
    NetInfo
46. [50] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
    space on the stuff in the html/pic/ subdirectory
48. [52] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53] Michael Shields <shields@tembel.org> USNO clock driver
50. [54] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
    driver
51. [55] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
    makeover, various other bits (see the ChangeLog)
52. [56] Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
    support
54. [58] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
    driver
55. [59] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
    TrueTime clock driver
56. [60] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
    validated HTML documents according to the HTML DTD

References
1. mailto:takao_abe@xurb.jp
2. mailto:mark_andrews@isc.org
3. mailto:altmeier@atlsoft.de
4. mailto:vbais@mailman1.intel.co
5. mailto:kirkwood@striderfm.intel.com
6. mailto:michael.barone@lmco.com
7. mailto:karl@owl.HQ.ileaf.com
8. mailto:greg.brackley@bigfoot.com
9. mailto:Marc.Brett@westgeo.com
10. mailto:Piete.Brooks@cl.cam.ac.uk
11. mailto:nelson@bolyard.me
12. mailto:Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:reg@dwf.com
14. mailto:clift@ml.csiro.au
15. mailto:casey@csc.co.za
16. mailto:Sven_Dietrich@trimble.COM
17. mailto:dundas@salt.jpl.nasa.gov
18. mailto:duwe@immd4.informatik.uni-erlangen.de
19. mailto:dennis@mrbill.canet.ca
20. mailto:jhay@icomtek.csir.co.za
21. mailto:davehart@davehart.com
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<signature of Ty Coon>, 1 April 1989
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<html>
<head>
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<title>Copyright Notice</title>
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>

<body>
<h3>Copyright Notice</h3>
<img src="pic/sheepb.jpg" alt="jpg" align="left"> &quot;Clone me,&quot; says Dolly sheepishly.
<p>Copyright Notice</p>
<last update:
<!-- #BeginDate format:En2m -->1-Jan-2011  08:34<!-- #EndDate -->
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</pre>
The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

Takao Abe &lt;takao_abe@xurb.jp&gt; Clock driver for JJY receivers
Mark Andrews &lt;mark_andrews@isc.org&gt; Leitch atomic clock controller
Bernd Altmeier &lt;altmeier@atsoft.de&gt; hopf Elektronik serial line and PCI-bus devices
Viraj Bais &lt;vbais@mailman1.intel.co&gt;.syslog to file option
Clayton Kirkwood &lt;kirkwood@striderfm.intel.com&gt; port to WindowsNT 3.5
Michael Barone &lt;michael,barone@lmco.com&gt; GPSVME fixes
Karl Berry &lt;karl@owl.HQ.ileaf.com&gt; syslog to file option
Greg Brackley &lt;greg.brackley@bigfoot.com&gt; Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
Nelson B Bolyard &lt;nelson@bolyard.me&gt; update and complete broadcast and crypto features in sntp
Nelson B Bolyard &lt;nelson@bolyard.me&gt; IPv6 support
Jean-Francois Boudreault &lt;Jean-Francois.Boudreault@viagenie.qc.ca&gt; IPv6 support
Reg Clemens &lt;reg@dwf.com&gt; Oncore driver (Current maintainer)
Steve Clift &lt;clift@ml.csiro.au&gt; OMEGA clock driver
Casey Crellin &lt;casey@csc.co.za&gt; vxWorks (Tornado) port and help with target configuration
Sven Dietrich &lt;sven_dietrich@trimble.COM&gt; Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
John A. Dundas III &lt;dundas@salt.jpl.nasa.gov&gt; Apple A/UX port
Torsten Duwe &lt;torsten@immd4.informatik.uni-erlangen.de&gt;
Open Source Used In Cisco VIM 3.4.313236

Linux port

Dennis Ferguson

IPv6 support and testing

John Hay

General maintenance, Windows port interpolation rewrite

Dennis Ferguson

IPv6 support and testing

John Hay

AUX port

Jim Jagielski

Dynamic interface handling

Jim Jagielski

4.4BSD port, ppislock, Magnavox GPS clock driver

Craig Leres

MD5-based authentication

Craig Leres

adaptation of foundation code for Version 3 as specified in RFC-1305

Lars H. Mathiesen

Network I/O, Windows Port, Code Maintenance

Danny Mayer


David L. Mills

VMS port

Wolfgang Moeller

ntptrace utility

Jeffrey Mogul

i386 svr4 port

Tom Moore
Kamal A Mostafa &lt;kamal@whence.com&gt;

Derek Mulcahy &lt;derek@toobox.demon.co.uk&gt;

Damon Hart-Davis &lt;dsf@hd.org&gt;

ARCRON MSF clock driver

Rob Neal &lt;neal@ntp.org&gt;

Bancomm refclock and config/parse code maintenance

Rainer Pruy &lt;Rainer.Pruy@informatik.uni-erlangen.de&gt;

ARCRON MSF clock driver

Dirce Richards &lt;dirce@zk3.dec.com&gt;

Digital UNIX V4.0 port

Wilfredo S&aelig;anchez &lt;wsanchez@apple.com&gt;

added support for NetInfo

Nick Sayer &lt;mrapple@quack.kfu.com&gt;

SunOS streams modules

Jack Sasportas &lt;jack@innovativeinternet.com&gt;

Datum PTS clock driver

Harlan Stenn &lt;harlan@pfcs.com&gt;

GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

Ray Schnitzler &lt;schnitz@unipress.com&gt;

Unixware1 port

Michael Shields &lt;shields@tembel.org&gt;

USNO clock driver

Jeff Steinman &lt;jss@pebbles.jpl.nasa.gov&gt;

Datum PTS clock driver

Harlan Stenn &lt;harlan@pfcs.com&gt;

GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

Kenneth Stone &lt;ken@sdd.hp.com&gt;

HP-UX port

Ajit Thyagarajan &lt;ajit@ee.udel.edu&gt;

IP multicast/anycast support

Tomoaki TSURUOKA &lt;tsuruoka@nc.fukuoka-u.ac.jp&gt;

TRAK clock driver

Paul A Vixie &lt;vixie@vix.com&gt;

TrueTime GPS driver, generic TrueTime clock driver

Ulrich Windl &lt;Ulrich.Windl@rz.uni-reensburg.de&gt;

corrected and validated HTML documents according to the HTML DTD

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/* .*. Mode: Text .*. */

copyright = {

date = ’1970-2011’;
owner = ’David L. Mills and/or others’;
eaddr = ’http://bugs.ntp.org, bugs@ntp.org’;
type = note;
text = ‘
see html/copyright.html

_EndOfDoc_;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;

version = ```
  eval VERSION=`sed -e ’s/.*\[// -e ’s/\]*/l’ < ../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 */

1.970 libtasn 4.10 1.el7

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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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Contributing
==============

Code is hosted at `git.openstack.org`_. Submit bugs to the python-manilaclient project on `Launchpad`_. Submit code to the openstack/python-manilaclient project using `Gerrit`_.

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Testing
-------

Manilaclient has two types of tests - 'unit' and 'functional'.

The preferred way to run tests is using `tox`.

See `Consistent Testing Interface`_ for more details.

.. _Consistent Testing Interface: https://git.openstack.org/cgit/openstack/governance/tree/reference/project-testing-interface.rst

Functional tests
----------------

Functional CLI tests require several things to be able to run:

* Deployed and working manila service.
* Configured config file.

Config file is used to get information like 'auth_url', 'username', 'tenant_name' and 'password'.

To get config sample need to run following 'tox' job:

.. code-block:: console

    $ tox -e genconfig

This will create file 'etc/manilaclient/manilaclient.conf.sample' with all available config opts.

Then rename it removing ".sample" and set values for opts there. After it, tests can be run using following tox job:
.. code-block:: console

$ tox -e functional

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1.987 kubeclient 1.1.4
1.987.1 Available under license:

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1.988 libsepol 2.6-2.debian

1.988.1 Available under license :

This is the Debian packe for libsepol, and it is built from sources obtained from http://userspace.selinuxproject.org/releases/current/devel/

This package was debianized by Russell Coker <russell@coker.com.au> on Fri, 20 Aug 2004 17:26:18 +1000.

libsepol is

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eb27

1.989 python-xstatic-spin 1.2.5.2 2.el7ost

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1.990 python-dateutil 2.8.0

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1.991 sysv-init 2.88dsf-59.9.debian

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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software

92K sysvinit-2.86.tar.gz

Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init

92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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The of the start-stop-daemon:

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels. It works through managing symlinks in /etc/rc?.d

This package is built from the `sysvinit' source package. Please consult the copyright file of the sysvinit package for the location of the upstream sources of the sysvinit package. Debian-specific files for sysvinit, such as these initscripts, are maintained by the members of the pkg-sysvinit project at alioth.debian.org.

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1.992 python2-os-traits 0.5.0 1.el7ost

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1.993 python 2.7.5 80.el7_6
1.993.1 Available under license :

.. highlightlang:: none

.. _history-and-license:

*******************
History and License
*******************

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
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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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| 2.7    | 2.6    | 2010  | PSF   | yes   |
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Mersenne Twister
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The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26. 
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) 
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod` :socket:` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm

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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 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
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strtod and dtoa
-----------------

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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
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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlere@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joj@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
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Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
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Preston Jackson <preston.a.jackson@gmail.com>
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Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
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Support for streaming Protocol Buffer messages for the Go language (golang).
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DNS library in Go
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1.1009 perl-dbd-mysql 4.023 6.el7

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1.1010 make 3.82 23.el7

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Version 3, 29 June 2007

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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1.1030 nss-util 3.36.0 1.1.el7_6

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
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Chandler Carruth <chandliere@google.com>
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Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@gmail.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
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Mika Raento <mikie@iki.fi>
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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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
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on the Library (independent of the use of the Library in a tool for
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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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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
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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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<P>
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<P>(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.)

</OL>

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data 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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<P>
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<P>
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</OL>

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1.1035 python2-designateclient 2.9.0 1.el7ost
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================

Functional Tests
================

The functional tests invoke the client executable to see that it actually works with a running Designate. WARNING: these tests will create and delete zones, recordsets, and other resources in Designate.

Installation
-------------

.. code-block:: shell-session

   cd python-designateclient
   pip install python-openstackclient
   pip install -r requirements.txt -r test-requirements.txt
   pip install -e .

Configuration
-------------

The functional tests look for a variable `TEMPEST_CONFIG` which specifies a config file for the test.

.. code-block:: shell-session

   export TEMPEST_CONFIG=tempest.conf

The tests will use Keystone to grab the Designate endpoint to test against. They need at least three users (two regular users, and one admin) for all the tests to run.

.. code-block:: shell-session

   [identity]
   uri = http://localhost:5000/v2.0
   uri_v3 = http://localhost:5000/v3
   auth_version = v2
   region = RegionOne

   username = demo
   tenant_name = demo
   password = password
   domain_name = Default

   alt_username = alt_demo
   alt_tenant_name = alt_demo
alt_password = password
alt_domain_name = Default

admin_username = admin
admin_tenant_name = admin
admin_password = password
admin_domain_name = Default

[designateclient]
# the directory containing the openstack executable
directory=/root/python-designateclient/.venv/bin

Running the tests
-----------------

The functional tests are run with tox (installed with "pip install tox"):

.. code-block:: shell-session

    tox -e functional

Contributors Guide
====================

.. toctree::

    contributing
    functional-tests

Contribution
============

Code is hosted `on GitHub`_. Submit bugs to the Designate Client project on
`Launchpad`_. Submit code to the openstack/python-designateclient project using
`Gerrit`_.

.. _on GitHub: https://github.com/openstack/python-designateclient
.. _Launchpad: https://launchpad.net/python-designateclient
.. _Gerrit: https://docs.openstack.org/infra/manual/developers.html#development-workflow

Here's a quick summary:

Install the git-review package to make life easier

.. code-block:: shell-session

    pip install git-review

Branch, work, & submit:
.. code-block:: shell-session

    # cut a new branch, tracking master
    git checkout --track -b bug/id origin/master
    # work work work
    git add stuff
    git commit
    # rebase/squash to a single commit before submitting
    git rebase -i
    # submit
    git-review

1.1036 sqlite 3.16.2-5+deb9u1.debian

1.1036.1 Available under license :

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: sqlite3
Source: http://www.sqlite.org/cgi/src/dir?ci=trunk

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DMIDecode Python Extension Module shadows the DMIDecode utility

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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.
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^L

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