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1.643 libjitterentropy 3.4.0
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1.644 docker 20.10.17+incompatible
1.644.1 Available under license
1.645 protobuf-java 2.2.0
1.645.1 Available under license
1.646 bcel 2.7.2
1.646.1 Available under license
1.647 botocore 1.27.96
1.647.1 Available under license
1.648 go-autorest-logging 0.2.1
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1.666 influxdata-influxdb-observability-influx2otel 0.2.21

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1.668 aws-aws-sdk-go-v2 1.12.5

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1.669 influxdata-influxdb-observability-common 0.2.22

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1.2 zlib 1.2.1

1.2.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.1, November 17th, 2003

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

1.3 python 2.6.4

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TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
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).

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,

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"""
Additional handlers for the logging package for Python. The core package is

based on PEP 282 and comments thereto in comp.lang.python, and influenced by
Apache's log4j system.

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.. 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
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
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been GPL-compatible; the table below summarizes the various releases.

+---------------+-------------+-----------+------------+-----------------+
| Release | Derived from | Year | Owner | GPL compatible? |
+===============+=============+===========+============+=================+
| 0.9.0 thru 1.2 | n/a | 1991-1995 | CWI | yes |
+---------------+-------------+-----------+------------+-----------------+
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
+---------------+-------------+-----------+------------+-----------------+
| 1.6 | 1.5.2
      | 2000 | CNRI | no |
+---------------+-------------+-----------+------------+-----------------+

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2002-2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2003	PSF	yes
2.3.3	2.3.2	2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes

+----------------+--------------+-----------+------------+-----------------+
| 2.5.1 | 2.5 | 2007 | PSF | yes |
+----------------+--------------+-----------+------------+-----------------+
| 2.5.2 | 2.5.1 | 2008 | PSF | yes
|
+----------------+--------------+-----------+------------+-----------------+
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
+----------------+--------------+-----------+------------+-----------------+
| 2.6 | 2.5 | 2008 | PSF | yes |
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Mersenne Twister

The :mod:'_random' module includes code based on a download from http://www.math.keio.ac.jp/
 matumoto/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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is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

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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  L. Peter Deutsch
```

ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic
TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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version is still
5 times faster, though.
- Arguments more compliant with python standard

XML Remote Procedure Calls

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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
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```
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*
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*
*  This module serves to replace the original parser module written
*  by Guido.  The functionality is not matched precisely, but the
*  original may be implemented on top of this.  This is desirable
*  since the source of the text to be parsed is now divorced from
*  this interface.
*
```

* Unlike the prior interface, the ability to give a parse tree
* produced by Python code as a tuple to the compiler is enabled by
* this module. See the documentation for more details.
*
*
 I've added some annotations that help with the lint code-checking
* program, but they're not complete by a long shot. The real errors
* that lint detects are gone, but there are still warnings with
* Py_[X]DECREF() and Py_[X]INCREF() macros. The lint annotations
* look like "NOTE(...)".
*/
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1.4 antlr 3.1.3

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1.5 ncurses 5.7

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1.6 libjpeg 6b

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==========

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION
ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,

rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal
documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the
hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats.

The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments
in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
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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.

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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 best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The
JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still
Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
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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
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Numerous Internet sites maintain copies of the UUNET files. However, only
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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/
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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.

1.7 openssl 1.0.0d

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1.8 lua 5.1.5

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1.9 apache-log4j 1.2.17

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1.11 libpcap 1.4.0

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1.13 slf4j 1.7.2

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1.14 open-ldap 2.4.40

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jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

1.17 libxml2 2.9.2

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1.18 xalan 2.7.2

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1.20 miglayout 3.5.5

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* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/LayoutUtil.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/MigLayout.java
*
/miglayout-3-5-5-sources-jar/net/miginfocom/layout/BoundSize.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/SwtContainerWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/demo/SwtDemo.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/Grid.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/IDEUtil.java
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/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and
will not

```
  * affect the flow or grid positions. The positioning is relative to the parent
 and can not (as padding) be used
  * to adjust the edges relative to the old value. May be <code>null</code> and elements may be <code>null</code>.
  * <code>null</code> value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1
  * and x2 will just absolutely positions the component.
  * <p>
  * Note that {@link #setBoundsInGrid(boolean)} changes the interpretation of thisproperty slightly.
  * <p>
  * For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at
www.migcomponents.com.
  * @return The current value as a new array, free to modify.
  */
```

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*/
/** Returns the gaps as pixel values.
  * @param parent The parent. Used to get the pixel values.
  * @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).
  * @param
 refSize The reference size used to get the pixel sizes.
  * @param before IF it is the gap before rather than the gap after to return.
  * @return The [min,preferred,max] sizes for the specified gap. Uses {@link
net.miginfocom.layout.LayoutUtil#NOT_SET}
  * for gap sizes that are <code>null</code>. Returns <code>null</code> if there was no gap specified. A new and
free to use array.
  */

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1.21 commons-collections 3.2.2

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1.22 taglibs-standard-spec 1.2.5

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1.28 libxslt 1.1.32

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1.29 tcsh 6.20.00

1.29.1 Available under license :

```
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config
/****************** System dependant compilation flags ****************/
/*
* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)
*  job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK This machine has a vfork().
*  It used to be that for job control to work, this define
*  was mandatory. This is not the case any more.
*  If you think you still need it, but you don't have vfork,
*  define this anyway and then do #define vfork fork.
*  I do this anyway on a Sun because of yellow pages brain damage,
*  [should not be needed under 4.1]
*  and on the iris4d cause SGI's fork is sufficiently "virtual"
*  that vfork isn't necessary.  (Besides, SGI's vfork is weird).
```

```
*  Note that some machines
 eg. rs6000 have a vfork, but not
*  with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS You have BSD-style job control (both process groups and
*  a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES You have BSD-style process time stuff (like rusage)
*  This may or may not be true.  For example, Apple Unix
*  (OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
* TERMIO You have struct termio instead of struct sgttyb.
*   This is usually the case for SYSV systems, where
*  BSD uses sgttyb. POSIX systems should define this
*  anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
*  NOTE: don't do this if you are on a Pyramid -- tcsh is
*  built in a BSD universe.
*  Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
*  you are running.
 Or set it to 0 if you are not SYSV based
*/
#define SYSVREL 0

/*
* YPBUGS Work around Sun YP bugs that cause expansion of ~username
*  to send command output to /dev/null
*/
#undef YPBUGS
```

```
/****************** local defines ********************/

#endif /* _h_config */
/*-
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*/
```

1.30 ldns 1.7.0

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1.31 glib 2.46.2

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End
/***
* Perl-Compatible Regular Expressions *
***/

/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

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-----------------------------------------------------------------------------
*/

#ifndef _PCRE_H
#define _PCRE_H

/*
 The current PCRE version information. */

#define PCRE_MAJOR          8
#define PCRE_MINOR          31
#define PCRE_PRERELEASE
#define PCRE_DATE           2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
#  ifndef PCRE_EXP_DECL
#    define PCRE_EXP_DECL  extern __declspec(dllimport)
#  endif
#  ifdef __cplusplus
#    ifndef PCRECPP_EXP_DECL
#      define PCRECPP_EXP_DECL  extern __declspec(dllimport)
#    endif
#    ifndef PCRECPP_EXP_DEFN
#      define PCRECPP_EXP_DEFN  __declspec(dllimport)
#    endif
#  endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
#  ifdef __cplusplus
#    define PCRE_EXP_DECL  extern "C"
#  else
#
   define PCRE_EXP_DECL  extern
#  endif
```

```
#endif

#ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#    define PCRECPP_EXP_DECL  extern
#  endif
#  ifndef PCRECPP_EXP_DEFN
#    define PCRECPP_EXP_DEFN
#  endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and
 therefore JIT
compiling). */

#define PCRE_CASELESS           0x00000001  /* Compile */
#define PCRE_MULTILINE          0x00000002  /* Compile */
#define PCRE_DOTALL             0x00000004  /* Compile */
#define PCRE_EXTENDED           0x00000008  /* Compile */
#define PCRE_ANCHORED           0x00000010  /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY     0x00000020  /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA              0x00000040  /* Compile */
#define PCRE_NOTBOL             0x00000080  /* Exec, DFA exec */
#define PCRE_NOTEOL             0x00000100  /* Exec, DFA exec */
#define PCRE_UNGREEDY           0x00000200  /* Compile */
#define PCRE_NOTEMPTY           0x00000400  /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8               0x00000800  /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16              0x00000800  /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE    0x00001000  /* Compile */
```

```
/*
 The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK      0x00002000  /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK     0x00002000  /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT       0x00004000  /* Compile */
#define PCRE_PARTIAL_SOFT       0x00008000  /* Exec, DFA exec */
#define PCRE_PARTIAL            0x00008000  /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST       0x00010000  /* DFA exec */
#define PCRE_DFA_RESTART        0x00020000  /* DFA exec */
#define PCRE_FIRSTLINE          0x00040000  /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES           0x00080000  /* Compile */
#define PCRE_NEWLINE_CR         0x00100000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF         0x00200000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF       0x00300000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY        0x00400000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF
   0x00500000  /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF        0x00800000  /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE        0x01000000  /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT  0x02000000  /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE  0x04000000  /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE  0x04000000  /* Synonym */
#define PCRE_PARTIAL_HARD       0x08000000  /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART   0x10000000  /* Exec, DFA exec */
#define PCRE_UCP                0x20000000  /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH         (-1)
#define PCRE_ERROR_NULL            (-2)
#define PCRE_ERROR_BADOPTION       (-3)
#define PCRE_ERROR_BADMAGIC        (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE  (-5)
#define PCRE_ERROR_UNKNOWN_NODE    (-5)  /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY        (-6)
#define PCRE_ERROR_NOSUBSTRING
    (-7)
#define PCRE_ERROR_MATCHLIMIT      (-8)
#define PCRE_ERROR_CALLOUT         (-9)  /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8         (-10)  /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16        (-10)  /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET  (-11)  /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11)  /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL         (-12)
#define PCRE_ERROR_BADPARTIAL      (-13)
#define PCRE_ERROR_INTERNAL        (-14)
#define PCRE_ERROR_BADCOUNT        (-15)
#define PCRE_ERROR_DFA_UITEM       (-16)
```

```
#define PCRE_ERROR_DFA_UCOND       (-17)
#define PCRE_ERROR_DFA_UMLIMIT     (-18)
#define PCRE_ERROR_DFA_WSSIZE      (-19)
#define PCRE_ERROR_DFA_RECURSE     (-20)
#define PCRE_ERROR_RECURSIONLIMIT  (-21)
#define PCRE_ERROR_NULLWSLIMIT     (-22)  /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE      (-23)
#define PCRE_ERROR_BADOFFSET       (-24)
#define PCRE_ERROR_SHORTUTF8       (-25)
#define
 PCRE_ERROR_SHORTUTF16      (-25)  /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP     (-26)
#define PCRE_ERROR_JIT_STACKLIMIT  (-27)
#define PCRE_ERROR_BADMODE         (-28)
#define PCRE_ERROR_BADENDIANNESS   (-29)
#define PCRE_ERROR_DFA_BADRESTART  (-30)

/* Specific error codes for UTF-8 validity checks */

#define PCRE_UTF8_ERR0             0
#define PCRE_UTF8_ERR1             1
#define PCRE_UTF8_ERR2             2
#define PCRE_UTF8_ERR3             3
#define PCRE_UTF8_ERR4             4
#define PCRE_UTF8_ERR5             5
#define PCRE_UTF8_ERR6             6
#define PCRE_UTF8_ERR7             7
#define PCRE_UTF8_ERR8             8
#define PCRE_UTF8_ERR9             9
#define PCRE_UTF8_ERR10            10
#define PCRE_UTF8_ERR11            11
#define PCRE_UTF8_ERR12            12
#define PCRE_UTF8_ERR13            13
#define PCRE_UTF8_ERR14            14
#define PCRE_UTF8_ERR15            15
#define PCRE_UTF8_ERR16            16
#define PCRE_UTF8_ERR17
          17
#define PCRE_UTF8_ERR18            18
#define PCRE_UTF8_ERR19            19
#define PCRE_UTF8_ERR20            20
#define PCRE_UTF8_ERR21            21

/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0            0
#define PCRE_UTF16_ERR1            1
#define PCRE_UTF16_ERR2            2
```

```
#define PCRE_UTF16_ERR3            3
#define PCRE_UTF16_ERR4            4

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS          0
#define PCRE_INFO_SIZE             1
#define PCRE_INFO_CAPTURECOUNT     2
#define PCRE_INFO_BACKREFMAX       3
#define PCRE_INFO_FIRSTBYTE        4
#define PCRE_INFO_FIRSTCHAR        4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE       5
#define PCRE_INFO_LASTLITERAL      6
#define PCRE_INFO_NAMEENTRYSIZE    7
#define PCRE_INFO_NAMECOUNT        8
#define PCRE_INFO_NAMETABLE        9
#define PCRE_INFO_STUDYSIZE        10
#define PCRE_INFO_DEFAULT_TABLES
   11
#define PCRE_INFO_OKPARTIAL        12
#define PCRE_INFO_JCHANGED         13
#define PCRE_INFO_HASCRORLF        14
#define PCRE_INFO_MINLENGTH        15
#define PCRE_INFO_JIT              16
#define PCRE_INFO_JITSIZE          17
#define PCRE_INFO_MAXLOOKBEHIND    18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8                  0
#define PCRE_CONFIG_NEWLINE               1
#define PCRE_CONFIG_LINK_SIZE             2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD  3
#define PCRE_CONFIG_MATCH_LIMIT           4
#define PCRE_CONFIG_STACKRECURSE          5
#define PCRE_CONFIG_UNICODE_PROPERTIES    6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION   7
#define PCRE_CONFIG_BSR                   8
#define PCRE_CONFIG_JIT                   9
#define PCRE_CONFIG_UTF16                 10
#define PCRE_CONFIG_JITTARGET             11

/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible.
 */

#define PCRE_STUDY_JIT_COMPILE            0x0001
```

```
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE   0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE   0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA            0x0001
#define PCRE_EXTRA_MATCH_LIMIT           0x0002
#define PCRE_EXTRA_CALLOUT_DATA          0x0004
#define PCRE_EXTRA_TABLES                0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION  0x0010
#define PCRE_EXTRA_MARK                  0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT        0x0040

/* Types */

struct real_pcre;                /* declaration; the definition is private  */
typedef struct real_pcre pcre;

struct real_pcre16;              /* declaration; the definition is private  */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack;      /* declaration; the definition is private  */
typedef
 struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack;    /* declaration; the definition is private  */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif
```

```
/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

typedef struct pcre_extra {
  unsigned long int flags;        /* Bits for which fields are set */
 void *study_data;              /* Opaque data from pcre_study() */
 unsigned long int match_limit;  /* Maximum number of calls to match() */
 void *callout_data;            /* Data passed back in callouts */
 const unsigned char *tables;    /* Pointer to character tables */
 unsigned long int match_limit_recursion; /* Max recursive calls to match() */
 unsigned char **mark;           /* For passing back a mark pointer */
 void *executable_jit;          /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_extra {
 unsigned long int flags;        /* Bits for which fields are set */
 void *study_data;              /* Opaque data from pcre_study() */
 unsigned long int match_limit;  /* Maximum number of calls to match() */
 void *callout_data;            /* Data passed back in callouts */
 const unsigned char
 *tables;    /* Pointer to character tables */
 unsigned long int match_limit_recursion; /* Max recursive calls to match() */
 PCRE_UCHAR16 **mark;           /* For passing back a mark pointer */
 void *executable_jit;          /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
 int          version;          /* Identifies version of block */
 /* ------------------------ Version 0 ------------------------------- */
 int          callout_number;    /* Number compiled into pattern */
 int         *offset_vector;     /* The offset vector */
 PCRE_SPTR    subject;          /* The subject being matched */
 int          subject_length;    /* The length of the subject */
 int
       start_match;       /* Offset to start of this match attempt */
 int          current_position;  /* Where we currently are in the subject */
 int          capture_top;       /* Max current capture */
 int          capture_last;      /* Most recently closed capture */
 void        *callout_data;      /* Data passed in with the call */
 /* ------------------- Added for Version 1 -------------------------- */
```

```
 int         pattern_position;  /* Offset to next item in the pattern */
 int         next_item_length;  /* Length of next item in the pattern */
 /* ------------------- Added for Version 2 ------------------------- */
 const unsigned char *mark;      /* Pointer to current mark or NULL    */
 /* ----------------------------------------------------------------- */
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_callout_block {
 int         version;           /* Identifies version of block */
 /* ------------------------
 Version 0 ------------------------------- */
 int         callout_number;    /* Number compiled into pattern */
 int        *offset_vector;     /* The offset vector */
 PCRE_SPTR16  subject;           /* The subject being matched */
 int         subject_length;    /* The length of the subject */
 int         start_match;       /* Offset to start of this match attempt */
 int         current_position;  /* Where we currently are in the subject */
 int         capture_top;       /* Max current capture */
 int         capture_last;      /* Most recently closed capture */
 void        *callout_data;      /* Data passed in with the call */
 /* ------------------- Added for Version 1 ------------------------- */
 int         pattern_position;  /* Offset to next item in the pattern */
 int         next_item_length;  /* Length of next item in the pattern */
 /* ------------------- Added for Version 2 ------------------------- */
 const PCRE_UCHAR16 *mark;
      /* Pointer to current mark or NULL    */
 /* ----------------------------------------------------------------- */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_stack_free)(void *);
```

```
PCRE_EXP_DECL int   (*pcre16_callout)(pcre16_callout_block *);
#else
  /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void  pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre_stack_free(void *);
PCRE_EXP_DECL int   pcre_callout(pcre_callout_block *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void  pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre16_stack_free(void *);
PCRE_EXP_DECL int   pcre16_callout(pcre16_callout_block *);
#endif  /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
              const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
              const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const
 char *, int, int *, const char **,
              int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
              int *, const unsigned char *);
PCRE_EXP_DECL int  pcre_config(int, void *);
PCRE_EXP_DECL int  pcre16_config(int, void *);
PCRE_EXP_DECL int  pcre_copy_named_substring(const pcre *, const char *,
              int *, int, const char *, char *, int);
PCRE_EXP_DECL int  pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
              int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int  pcre_copy_substring(const char *, int *, int, int,
              char *, int);
PCRE_EXP_DECL int  pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
              PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int  pcre_dfa_exec(const pcre *, const pcre_extra *,
              const char *, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre16_dfa_exec(const pcre16 *, const
 pcre16_extra *,
              PCRE_SPTR16, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
```

```
            int, int, int, int *, int);
PCRE_EXP_DECL int  pcre16_exec(const pcre16 *, const pcre16_extra *,
             PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_fullinfo(const pcre *, const pcre_extra *, int,
            void *);
PCRE_EXP_DECL int  pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
            void *);
PCRE_EXP_DECL int  pcre_get_named_substring(const pcre *, const char *,
            int *, int, const char *, const char **);
PCRE_EXP_DECL int  pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
            int
 *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int  pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int  pcre_get_stringtable_entries(const pcre *, const char *,
            char **, char **);
PCRE_EXP_DECL int  pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
            PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int  pcre_get_substring(const char *, int *, int, int,
            const char **);
PCRE_EXP_DECL int  pcre16_get_substring(PCRE_SPTR16, int *, int, int,
            PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_substring_list(const char *, int *, int,
            const char ***);
PCRE_EXP_DECL int  pcre16_get_substring_list(PCRE_SPTR16, int *, int,
            PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int  pcre_refcount(pcre *,
 int);
PCRE_EXP_DECL int  pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int  pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
            const unsigned char *);
PCRE_EXP_DECL int  pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
            const unsigned char *);
PCRE_EXP_DECL int  pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
```

```
            PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack
 *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
            pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
            pcre16_jit_callback, void *);

#ifdef __cplusplus
}  /* extern "C" */
#endif

#endif /* End of pcre.h */
```

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[This is the first released version of the library GPL. It is
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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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*/

#ifndef __G_LIB_H__
#define __G_LIB_H__

#define __GLIB_H_INSIDE__

#include <glib/galloca.h>
#include <glib/garray.h>
#include <glib/gasyncqueue.h>
#include <glib/gatomic.h>
#include <glib/gbacktrace.h>
#include <glib/gbase64.h>
#include <glib/gbitlock.h>
#include <glib/gbookmarkfile.h>
#include <glib/gbytes.h>
#include <glib/gcharset.h>
#include <glib/gchecksum.h>
#include <glib/gconvert.h>
#include <glib/gdataset.h>
#include <glib/gdate.h>
#include <glib/gdatetime.h>
#include <glib/gdir.h>
#include <glib/genviron.h>
#include <glib/gerror.h>
#include <glib/gfileutils.h>
#include <glib/ggettext.h>
```

```
#include <glib/ghash.h>
#include <glib/ghmac.h>
#include <glib/ghook.h>
#include <glib/ghostutils.h>
#include <glib/giochannel.h>
#include <glib/gkeyfile.h>
#include <glib/glist.h>
#include <glib/gmacros.h>
#include <glib/gmain.h>
#include <glib/gmappedfile.h>
#include <glib/gmarkup.h>
#include <glib/gmem.h>
#include <glib/gmessages.h>
#include
 <glib/gnode.h>
#include <glib/goption.h>
#include <glib/gpattern.h>
#include <glib/gpoll.h>
#include <glib/gprimes.h>
#include <glib/gqsort.h>
#include <glib/gquark.h>
#include <glib/gqueue.h>
#include <glib/grand.h>
#include <glib/gregex.h>
#include <glib/gscanner.h>
#include <glib/gsequence.h>
#include <glib/gshell.h>
#include <glib/gslice.h>
#include <glib/gslist.h>
#include <glib/gspawn.h>
#include <glib/gstrfuncs.h>
#include <glib/gstring.h>
#include <glib/gstringchunk.h>
#include <glib/gtestutils.h>
#include <glib/gthread.h>
#include <glib/gthreadpool.h>
#include <glib/gtimer.h>
#include <glib/gtimezone.h>
#include <glib/gtrashstack.h>
#include <glib/gtree.h>
#include <glib/gtypes.h>
#include <glib/gunicode.h>
#include <glib/gurifuncs.h>
#include <glib/gutils.h>
#include <glib/gvarianttype.h>
#include <glib/gvariant.h>
#include <glib/gversion.h>
#include <glib/gversionmacros.h>
```

```
#ifdef G_PLATFORM_WIN32
#include <glib/gwin32.h>
#endif

#ifndef G_DISABLE_DEPRECATED
#include <glib/deprecated/gallocator.h>
#include
 <glib/deprecated/gcache.h>
#include <glib/deprecated/gcompletion.h>
#include <glib/deprecated/gmain.h>
#include <glib/deprecated/grel.h>
#include <glib/deprecated/gthread.h>
#endif /* G_DISABLE_DEPRECATED */

#include <glib/glib-autocleanups.h>

#undef __GLIB_H_INSIDE__

#endif /* __G_LIB_H__ */
```

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1.32 libtool 2.4.6

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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MD5
message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
    references to Ghostscript; clarified derivation from RFC 1321;
    now handles byte order either statically or dynamically.
1999-11-04 lpd Edited
comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
    added conditionalization for C++ compilation from Martin
    Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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zlib

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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
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All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now		PSF	yes

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

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.. _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 https://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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+----------------+--------------+-----------+------------+-----------------+
| Release | Derived from | Year | Owner | GPL compatible? |
+================+==============+===========+============+=================+
| 0.9.0 thru 1.2 | n/a | 1991-1995 | CWI | yes |
+----------------+--------------+-----------+------------+-----------------+
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
+----------------+--------------+-----------+------------+-----------------+
| 1.6 | 1.5.2 | 2000 | CNRI | no |
+----------------+--------------+-----------+------------+-----------------+
|
 2.0 | 1.6 | 2000 | BeOpen.com | no |
+----------------+--------------+-----------+------------+-----------------+
| 1.6.1 | 1.6 | 2001 | CNRI | no |
+----------------+--------------+-----------+------------+-----------------+

| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
+---+---+---+---+---+
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
+---+---+---+---+---+
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+---+---+---+---+---+
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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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets

The :mod:`socket` module uses the

functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

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strtod
and dtoa

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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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Python was created in the early 1990s by Guido van Rossum at Stichting
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successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National

Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
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+================+==============+===========+============+=================+
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+----------------+--------------+-----------+------------+-----------------+
| 1.6 | 1.5.2 | 2000 | CNRI | no |
+----------------+--------------+-----------+------------+-----------------+
|
 2.0 | 1.6 | 2000 | BeOpen.com | no |
+----------------+--------------+-----------+------------+-----------------+
| 1.6.1 | 1.6 | 2001 | CNRI | no |
+----------------+--------------+-----------+------------+-----------------+
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
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| 2.1.3 | 2.1.2
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Mersenne Twister

The :mod:`_random` module includes code based on a download from
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A C-program
for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets

The :mod:`socket` module uses the
functions, :func:`getaddrinfo`, and
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
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2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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1.39 zlib 1.2.3

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1.40 hk2-utils 2.5.0

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* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
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* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/util/UtilityElf.java
*
/hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
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* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/HikariDataSource.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/HikariPoolMXBean.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/HikariConfigMXBean.java

1.50 commons-http-client 3.1

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- web-fragment_3_0.xsd
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- web-common_3_1.xsd
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Provide generalized library-building support services.
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*
* Modified by Jelte Jansen to fit in ldns, and not clash with any
* system-defined SHA code.
* Changes:

* - Renamed (external) functions and constants to fit ldns style
* - Removed _End and _Data functions
* - Added ldns_shaX(data, len, digest) convenience functions
* - Removed prototypes of _Transform functions and made those static
*
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*
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/* From openssh4.3p2 compat/inet_aton.c */

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version 1.2.11, January 15th, 2017

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* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Adler32.java
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* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPOutputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZInputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflater.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfBlocks.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/DeflaterOutputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Inflater.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/JZlib.java
*
 /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPInputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/CRC32.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPHeader.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InflaterInputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Checksum.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZOutputStream.java

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* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStreamException.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfTree.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Tree.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfCodes.java

1.57 sbsigntool 1.3

1.57.1 Available under license :

sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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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 @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.

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authorized party saying it may be distributed under the terms of this
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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.

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

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@item
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:

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

@item
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.

@item
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:

@enumerate a
@item
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.)

@item
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.

@item
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

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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

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@end
smallexample

Also add information on how to contact you by electronic and paper mail.

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

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patent must be licensed for everyone's free use or not licensed at all.

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 that you changed the files and the date of any change.

@item
You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

@item
If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)
@end enumerate

These requirements apply to the modified work as
 a whole. If
identifiable sections of that work are not derived from the Program,
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 Program, 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 Program.

In addition, mere aggregation of another work not based on the Program
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@item
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@enumerate a
@item
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1 and 2 above on a medium customarily used for software interchange; or,

@item
Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

@item
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.)
@end enumerate

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any

associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

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access to copy the source code from the same place counts
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@page
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1.59 jffi 1.0.1

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1.60 bzip2 1.0.7

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1.62 commons-logging 1.1.1

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1.63 lua-cjson 2.1.0

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1.68 json-glib 1.2.8

1.69 libnet 1.2

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1.70 mchange-commons-java 0.2.15

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1.71 ipmi-tool 1.8.18

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1.72 tcl 8.5.19

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1.74 lua 5.2.4

1.75 make 4.2

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1.80 commons-beanutils 1.9.4

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General

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

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

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

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

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

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

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

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

threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the
work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed
(in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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Upstream-Name: ls-config
Source: https://github.com/lucas-net-pl/ls-config

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@c
@c %**start of header

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@sp 1
@center Preamble
@sp 1

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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.

@page

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@enumerate 0

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@item
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.

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

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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:

@enumerate a

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

@sp 1
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You must cause the files modified to carry prominent notices stating that you changed the
files and the date of any change.

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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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@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.

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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.

@sp 1
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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.

@sp 1
@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.

@sp 1
@item
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:

@enumerate a

@sp 1
@item
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.)

@sp 1
@item
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.

@sp 1
@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.

@sp 1
@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.

@sp 1
@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.

@sp 1
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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

@sp 1
@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.

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1.83 bean-validation-api 2.0.1.Final

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1.85 pcre 8.35

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1.86 c-ares 1.10.0

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1.87 google-api-python-client 1.7.6

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1.88 postgre-sql 7.4.2

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1.89 gmp 5.1.3

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==========

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1.94 libidn 1.35

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.105 distlib 0.3.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes

2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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==========

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distlib has started off using some of the code from distutil2.

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1.106 bouncycastle-fips 1.0.2

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1.108 ncurses 6.2

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1.109 logrus 1.5.0

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1.110 coreos-semver 0.3.0

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1.111 xz 5.2.5

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1.113 libffi 3.3

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1.114 properties 1.8.1

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1.115 jpillora-backoff 1.0.0

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1.116 openssl 1.0.1j

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The End

1.118 quartz 2.3.2

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1.120 mitchellh-mapstructure 1.3.0

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1.121 goleveldb 1.0.0

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1.122 cobra 1.0.0

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1.123 go-playground-validator 10.2.0

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1.124 gorilla 1.7.4

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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#
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#
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compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
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lib/csharp/src/Protocol/TType.cs

lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
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lib/csharp/src/Transport/TTransport.cs
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lib/st/README
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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.

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

Otherwise, if the work is a derivative of the Library, you may distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

interface-compatible with the version that the work was made with.

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

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

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

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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
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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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use both them and the Library together in an executable that you
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long as you offer spare parts or customer support for that product
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.2 and above	2.1.1	2001-now		
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.142 sqlite 3.33.0

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1.143 bouncycastle-fips 1.0.3

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```
/**
   * Base constructor.
   * <p>
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   * </p>
   * <p>
   * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
   * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
   * If *.com is in the known suffixes list will not be allowed to match.
   * </p>
   *
   * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
   */
```

Found in path(s):
* /bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.144 libevent 2.1.12

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1.145 flex 2.6.4

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version 0.1
##
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1.147 python 2.4.3R

1.147.1 Available under license :

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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.

(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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1.150 python 3.7.9

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.151 pkix-ssh 12.5.1

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*
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*
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1.155 mhash 0.9.9

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1.161 linenoise 1.0

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1.162 packaging 19.0

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1.167 nghttp2 1.42.0

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1.168 queue 1.1.0

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1.169 lua 5.4.2

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```
#!/usr/bin/env lua5.3


-- special marks:
-- \1 - paragraph (empty line)
-- \4 - remove spaces around it
-- \3 - ref (followed by label|)

------------------------------------------------------------------
header = [[
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>

<head>
<title>Lua 5.4 Reference Manual</title>
<meta http-equiv="Content-Type" content="text/html;charset=utf-8">
<link rel="stylesheet" href="lua.css">
<link rel="stylesheet" href="manual.css">
</head>

<body bgcolor="#FFFFFF">

<hr>
<h1>
<a href="http://www.lua.org/home.html"><img src="logo.gif" alt="[Lua logo]" border="0"></a>
Lua 5.4 Reference Manual
</h1>

by Roberto Ierusalimschy, Luiz Henrique de Figueiredo, Waldemar Celes
<p>
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<hr>

<!-- ========================================================================== -->
<p>

]]

footer
 = "\n\n</body></html>\n\n"

local seefmt = '(see %s)'
```

```
if arg[1] == 'port' then
 seefmt = '(ver %s)'
 header = string.gsub(header, "by (.-)\n",
 "%1\n<p>Tradu&ccedil;&atilde;o: S&eacute;rgio Queiroz de Medeiros", 1)
 header = string.gsub(header, "Lua (%d+.%d+) Reference Manual",
                         "Manual de Refer&ecirc;ncia de Lua %1")
 header = string.gsub(header, "All rights reserved",
                         "Todos os direitos reservados")
end


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

local function compose (f,g)
 assert(f and g)
 return function (s) return g(f(s)) end
end

local function concat (f, g)
 assert(f and g)
 return function (s) return f(s) .. g(s) end
end


local Tag = {}


setmetatable(Tag, {
 __index = function (t, tag)
    local v = function (n, att)
      local e = ""
      if type(att) == "table" then
        for k,v in pairs(att) do e = string.format('%s %s="%s"', e, k, v) end
      end
       if n then
        return string.format("<%s%s>%s</%s>", tag, e, n, tag)
      else
        return string.format("<%s%s>", tag, e)
      end
    end
    t[tag] = v
    return v
 end
})



---------------------------------------------------------------
```

```
local labels = {}


local function anchor (text, label, link, textlink)
 if labels[label] then
   error("label " .. label .. " already defined")
 end
 labels[label] = {text = textlink, link = link}
 return Tag.a(text, {name=link})
end

local function makeref (label)
 assert(not string.find(label, "|"))
 return string.format("\3%s\3", label)
end

local function ref (label)
 local l = labels[label]
 if not l then
   io.stderr:write("label ", label, " undefined\n")
   return "@@@@@@@@"
 else
   return Tag.a(l.text, {href="#"..l.link})
 end
end

-----------------------------------------------------------------
local function nopara (t)
 t = string.gsub(t, "\1", "\n\n")
 t = string.gsub(t, "<p>%s*</p>", "")
  return t
end

local function fixpara (t)
 t = string.gsub(t, "\1", "\n</p>\n\n<p>\n")
 t = string.gsub(t, "<p>%s*</p>", "")
 return t
end

local function antipara (t)
 return "</p>\n" .. t .. "<p>"
end


Tag.pre = compose(Tag.pre, antipara)
Tag.ul = compose(Tag.ul, antipara)

-----------------------------------------------------------------
```

```
local Gfoots = 0
local footnotes = {}

local line = Tag.hr(nil)

local function dischargefoots ()
 if #footnotes == 0 then return "" end
 local fn = table.concat(footnotes)
 footnotes = {}
 return line .. Tag.h3"footnotes:" .. fn .. line
end


local Glists = 0
local listings = {}

local function dischargelist ()
 if #listings == 0 then return "" end
 local l = listings
 listings = {}
 return line .. table.concat(l, line..line) .. line
end

---------------------------------------------------------------
local counters = {
h1 = {val = 1},
h2 = {father = "h1", val = 1},
h3 = {father = "h2", val = 1},
listing = {father = "h1", val = 1},
}

local
 function inccounter (count)
 counters[count].val = counters[count].val + 1
 for c, v in pairs(counters) do
   if v.father == count then v.val = 1 end
 end
end

local function getcounter (count)
 local c = counters[count]
 if c.father then
   return getcounter(c.father) .. "." .. c.val
 else
   return c.val .. ""
 end
end
---------------------------------------------------------------
```

```
local function fixed (x)
 return function () return x end
end

local function id (x) return x end


local function prepos (x, y)
 assert(x and y)
 return function (s) return string.format("%s%s%s", x, s, y) end
end


local rw = Tag.b




local function LuaName (name)
 return Tag.code(name)
end


local function getparam (s)
 local i, e = string.find(s, "^[^%s@|]+|")
 if not i then return nil, s
 else return string.sub(s, i, e - 1), string.sub(s, e + 1)
 end
end


local function gettitle (h)
 local title, p = assert(string.match(h, "<title>(.-)</title>()"))
 return title, string.sub(h,
 p)
end

local function getparamtitle (what, h, nonum)
   local label, title, c, count
   label, h = getparam(h)
   title, h = gettitle(h)
   if not nonum then
     count = getcounter(what)
     inccounter(what)
     c = string.format("%s &ndash; ", count)
   else
```

```
    c = ""
  end
  label = label or count
  if label then
    title = anchor(title, label, count, "&sect;"..count)
  end
  title = string.format("%s%s", c, title)
  return title, h
end

local function section (what, nonum)
 return function (h)
  local title
  title, h = getparamtitle(what, h, nonum)
  local fn = what == "h1" and dischargefoots() or ""
  h = fixpara(Tag.p(h))
  return "</p>\n" .. Tag[what](title) .. h .. fn ..
        dischargelist() .. "<p>"
 end
end


local function verbatim (s)
 s = nopara(s)
 s = string.gsub(s, "\n", "\n     ")
 s = string.gsub(s, "\n%s*$", "\n")
 return Tag.pre(s)
end


local function verb (s)
 return Tag.code(s)
end


local function lua2link
 (e)
 return string.find(e, "luaL?_") and e or "pdf-"..e
end


local verbfixed = verb


local Tex = {

ANSI = function (func)
        return "ISO C function " .. Tag.code(func)
```

```
      end,
At = fixed"@",
B = Tag.b,
bigskip = fixed"",
bignum = id,
C = fixed"",
Ci = prepos("<!-- ", " -->"),
CId = function (func)
      return "C function " .. Tag.code(func)
    end,
chapter = section"h1",
Char = compose(verbfixed, prepos("""", """")),
Cdots = fixed"&middot;&middot;&middot;",
Close = fixed"}",
col = Tag.td,
defid = function (name)
        local l = lua2link(name)
        local c = Tag.code(name)
        return anchor(c, l, l, c)
      end,
def = Tag.em,
description = compose(nopara, Tag.ul),
Em = fixed("\4" .. "&mdash;" .. "\4"),
emph = Tag.em,
emphx = Tag.em,    -- emphasis plus index (if there was an index)
En = fixed("&ndash;"),
format = fixed"",
["false"] = fixed(Tag.b"false"),
id = Tag.code,
idx = Tag.code,
index = fixed"",
Lidx = fixed"",  -- Tag.code,
ldots
 = fixed"...",
x = id,
itemize = compose(nopara, Tag.ul),
leq = fixed"&le;",
Lid = function (s)
      return makeref(lua2link(s))
    end,
M = Tag.em,
N = function (s) return (string.gsub(s, " ", " ")) end,
NE = id,        -- tag"foreignphrase",
num = id,
["nil"] = fixed(Tag.b"nil"),
fail = fixed(Tag.b"fail"),
Open = fixed"{",
part = section("h1", true),
```

```
Pat = compose(verbfixed, prepos("", "")),
preface = section("h1", true),
psect = section("h2", true),
Q = prepos("", ""),
refchp = makeref,
refcode = makeref,
refsec = makeref,

pi = fixed"&pi;",
rep = Tag.em,  -- compose(prepos("&lt;", "&gt;"), Tag.em),
Rw = rw,
rw = rw,
sb = Tag.sub,
sp = Tag.sup,
St = compose(verbfixed, prepos("", "")),
sect1 = section"h1",
sect2 = section"h2",
sect3 = section"h3",
sect4 = section("h4", true),
simplesect = id,
Tab2 = function (s) return Tag.table(s, {border=1}) end,
row = Tag.tr,
title = Tag.title,
todo = Tag.todo,
["true"] = fixed(Tag.b"true"),
T = verb,

item = function (s)

   local t, p = string.match(s, "^([^\\n|]+)|()")
      if t then
        s = string.sub(s, p)
        s = Tag.b(t..": ") .. s
      end
      return Tag.li(fixpara(s))
    end,

verbatim = verbatim,

manual = id,


-- for the manual

link =function (s)
 local l, t = getparam(s)
 assert(l)
 return string.format("%s (%s)", t, makeref(l))
```

```
end,

see = function (s) return string.format(seefmt, makeref(s)) end,
See = makeref,
seeC = function (s)
       return string.format(seefmt, makeref(s))
     end,

seeF = function (s)
       return string.format(seefmt, makeref(lua2link(s)))
     end,

APIEntry = function (e)
 local h, name
 h, e = string.match(e, "^%s*(.-)%s*|(.*)$")
 name = string.match(h, "(luaL?_[%w_]+)%)? +%(") or
       string.match(h, "luaL?_[%w_]+")
 local a = anchor(Tag.code(name), name, name, Tag.code(name))
 local apiicmd, ne = string.match(e, "^(.-</span>)(.*)")
--io.stderr:write(e)
 if not apiicmd then
   return antipara(Tag.hr() .. Tag.h3(a))
 .. Tag.pre(h) .. e
 else
   return antipara(Tag.hr() .. Tag.h3(a)) .. apiicmd .. Tag.pre(h) .. ne
 end
end,

LibEntry = function (e)
 local h, name
 h, e = string.match(e, "^(.-)|(.*)$")
 name = string.gsub(h, " (.+", "")
 local l = lua2link(name)
 local a = anchor(Tag.code(h), l, l, Tag.code(name))
 return Tag.hr() .. Tag.h3(a) .. e
end,

Produc = compose(nopara, Tag.pre),
producname = prepos("\t", " ::= "),
Or = fixed" | ",
VerBar = fixed"&#124;",  -- vertical bar
OrNL = fixed" | \4",
bnfNter = prepos("", ""),
bnfopt = prepos("[", "]"),
bnfrep = prepos("{", "}"),
bnfter = compose(Tag.b, prepos("&lsquo;", "&rsquo;")),
producbody = function (s)
        s = string.gsub(s, "%s+", " ")
```

```
          s = string.gsub(s, "\4", "\n\t\t")
          return s
        end,

apii = function (s)
       local pop,push,err = string.match(s, "^(.-),(.-),(.*)$")
       if pop ~= "?" and string.find(pop, "%W") then
         pop = "(" .. pop .. ")"
       end
       if push ~= "?"
 and string.find(push, "%W") then
         push = "(" .. push .. ")"
       end
       err = (err == "-") and "&ndash;" or Tag.em(err)
       return Tag.span(
              string.format("[-%s, +%s, %s]", pop, push, err),
              {class="apii"}
             )
     end,
}

local others = prepos("?? "," ??")

local function trata (t)
 t = string.gsub(t, "@(%w+)(%b{})", function (w, f)
       f = trata(string.sub(f, 2, -2))
       if type(Tex[w]) ~= "function" then
        io.stderr:write(w .. "\n")
        return others(f)
       else
        return Tex[w](f, w)
       end
     end)
 return t
end



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

-- read whole book
t = io.read"*a"

t = string.gsub(t, "[<>&\128-\255]",
 {["<"] = "&lt;",
  [">"] = "&gt;",
  ["&"] = "&amp;",
  ["\170"] = "&ordf;",
```

```
  ["\186"] = "&ordm;",
  ["\192"] = "&Agrave;",
  ["\193"] = "&Aacute;",
   ["\194"] = "&Acirc;",
  ["\195"] = "&Atilde;",
  ["\199"] = "&Ccedil;",
  ["\201"] = "&Eacute;",
  ["\202"] = "&Ecirc;",
  ["\205"] = "&Iacute;",
  ["\211"] = "&Oacute;",
  ["\212"] = "&Ocirc;",
  ["\218"] = "&Uacute;",
  ["\224"] = "&agrave;",
  ["\225"] = "&aacute;",
  ["\226"] = "&acirc;",
  ["\227"] = "&atilde;",
  ["\231"] = "&ccedil;",
  ["\233"] = "&eacute;",
  ["\234"] = "&ecirc;",
  ["\237"] = "&iacute;",
  ["\243"] = "&oacute;",
  ["\244"] = "&ocirc;",
  ["\245"] = "&otilde;",
  ["\250"] = "&uacute;",
  ["\252"] = "&uuml;"
 })

t = string.gsub(t, "\n\n+", "\1")



-- complete macros with no arguments
t = string.gsub(t, "(@%w+)([^{%w])", "%1{}%2")

t = trata(t)

-- correct references
t = string.gsub(t, "\3(.-)\3", ref)

-- remove extra space (??)
t = string.gsub(t, "%s*\4%s*", "")

t = nopara(t)

-- HTML 3.2 does not need </p> (but complains when it is in wrong places :)
t = string.gsub(t, "</p>", "")

io.write(header, t, footer)
```

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******************************************************************************/
```

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```
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****
]]

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* /lua-lua-v5-4-2-0-g9d067ab-tar-gz/lua-lua-9d067ab/testes/all.lua

1.170 go-hostpool 0.0.0-20160125115350-e80d13ce29ed

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1.171 curl 7.74.0

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1.172 viper 1.6.3

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1.173 libgpg-error 1.41

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libhcrypto

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lib/hcrypto/test_dh.c

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1.190 zstd 1.4.8

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1.191 llvm 11.0.1

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=-=-=-

```
; 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" }
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; 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) {
; CHECK-LABEL: TestSelect:
; CHECK:       # %bb.0:
; CHECK-NEXT:    pushq %rbx
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    subq $32, %rsp
; CHECK-NEXT:    .cfi_def_cfa_offset 48
; CHECK-NEXT:    .cfi_offset %rbx, -16
; CHECK-NEXT:    movaps %xmm1, {{[-0-9]+}}(%r{{[sb]}}p) # 16-byte Spill
; CHECK-NEXT:    movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:    callq __gttf2
; CHECK-NEXT:    movl %eax, %ebx
; CHECK-NEXT:    movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT:    movaps {{[-0-9]+}}(%r{{[sb]}}p),
 %xmm1 # 16-byte Reload
; CHECK-NEXT:    callq __subtf3
; CHECK-NEXT:    testl %ebx, %ebx
; CHECK-NEXT:    jg .LBB0_2
; CHECK-NEXT:  # %bb.1:
; CHECK-NEXT:    xorps %xmm0, %xmm0
; CHECK-NEXT:  .LBB0_2:
; CHECK-NEXT:    addq $32, %rsp
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    popq %rbx
; CHECK-NEXT:    .cfi_def_cfa_offset 8
; CHECK-NEXT:    retq
 %cmp = fcmp ogt fp128 %a, %b
 %sub = fsub fp128 %a, %b
```

```
 %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
 ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK:       # %bb.0:
; CHECK-NEXT:    andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:    retq
 %res = call fp128 @llvm.fabs.f128(fp128 %a)
 ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    andps {{.*}}(%rip), %xmm1
; CHECK-NEXT:    andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:    orps %xmm1, %xmm0
; CHECK-NEXT:    retq
 %res = call
 fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
 ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK:       # %bb.0:
; CHECK-NEXT:    pushq %rax
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    movaps %xmm0, %xmm1
; CHECK-NEXT:    callq __multf3
; CHECK-NEXT:    xorps {{.*}}(%rip), %xmm0
; CHECK-NEXT:    popq %rax
; CHECK-NEXT:    .cfi_def_cfa_offset 8
; CHECK-NEXT:    retq
 %mul = fmul fp128 %a, %a
 %res = fsub fp128 0xL00000000000000008000000000000000, %mul
 ret fp128 %res
}
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Camellia in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libhcrypto

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lib/hcrypto/test_dh.c

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Source Code

The project maintains the following source code repositories:

 * https://github.com/eclipse-ee4j/common-annotations-api

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 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/LongMemberValue.java

1.201 gdbm 1.18.1

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* /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/StringEncodings.java
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* /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/BinaryDecoder.java
* /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/EncoderException.java
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1.204 clang 6.0.0

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* /clang-6-0-0-tar-gz/clang-6.0.0/examples/cindex/cindex-dump.py
* /clang-6-0-0-tar-gz/clang-6.0.0/examples/cindex/cindex-includes.py
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Name: clang

Version: 6.0.0
Summary: UNKNOWN
Home-page: https://github.com/ethanhs/clang
Author: Ethan Smith
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1.205 jakarta-ws-rs-api 2.1.5

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* https://github.com/eclipse-ee4j/jaxrs-api

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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

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org.apache.taglibs:taglibs-standard-impl

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

org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/ASMifierAnnotationVisitor.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
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1.215 perl 5.32.1

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1.220 libuv 1.41.0

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1.221 cjson 1.7.14

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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
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen

Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
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Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
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Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
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
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
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
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
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Slemko, Marc
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Uzel, Petr
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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 as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho

Chornoivan, Yuri
Diguez, Francisco
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Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
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Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
erbnescu, Daniel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
Yang, Boyuan

The following people designed the artwork used on the sudo website:

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Written by: Philip Hazel
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1.226 lz4 1.9.3

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Mesa 3-D Graphics Library v19.2.1

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---
include/GL/gl.h :

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include/GL/glxext.h
include/GL/wglxext.h :

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1.228 tomcat-api 8.5.32

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1.229 go-units 0.4.0

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1.233 lucene 2.4.1

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1.238 ucl 1.03

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1.240 tomcat-juli 8.5.32

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1.241 libiconv 1.14_11

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1.242 tomcat-el-api 8.5.32

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Found in path(s):
* /jackson-mapper-asl-1-0-1-sources-1-jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.244 tomcat-jdbc 8.5.32

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1.249 tomcat-tribes 8.5.32

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 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/modules/ModelerSource.java
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* /tomcat-coyote-8-5-32-sources-1-
jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsIntrospectionSource.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLX509Certificate.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/package-info.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/Closeable.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/Cookie.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLSessionContext.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLKeyManager.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/Authorization.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/UploadContext.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/LimitedInputStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemHeaders.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/BaseAttributeFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLEngine.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLContext.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/DiskFileItemFactory.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/log/UserDataHelper.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/MimeUtility.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemIterator.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/Streams.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/RequestUtil.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemFactory.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/ApplicationBufferHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/BaseModelMBean.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/NioChannel.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/Nio2Channel.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/package-info.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/BaseNotificationBroadcaster.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/package-info.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/IOUtils.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLProtocols.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/RequestContext.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/NotificationInfo.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItem.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/RegistryMBean.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/ParseException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/ServletFileUpload.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/OperationInfo.java
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/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/MultipartStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/FileItemHeadersImpl.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLImplementation.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/Registry.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SecureNioChannel.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/Host.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ByteArrayOutputStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ThresholdingOutputStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/FeatureInfo.java
* /tomcat-coyote-8-5-32-sources-1-
jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsDigesterSource.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/DeferredFileOutputStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/package-info.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemStream.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/ManagedBean.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUtils.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUpload.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLSessionStats.java
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*/
/**
    * Return the initialization parameters for the TrustManager.
    * Currently, only the default <code>PKIX</code>
 is supported.
    *
    * @param crlf The path to the CRL file.
    * @param trustStore The configured TrustStore.
```

```
   * @param revocationEnabled Should the JSSE provider perform revocation
   *                          checks? Ignored if {@code crlf} is non-null.
   *                          Configuration of revocation checks are expected
   *                          to be via proprietary JSSE provider methods.
   * @return The parameters including the CRLs and TrustStore.
   * @throws Exception An error occurred
   */
```

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```

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 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/EnumElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/JavaClass.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassFormatException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Annotations.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AnnotationElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantInteger.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ElementValuePair.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Constant.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantDouble.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AnnotationEntry.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/SimpleElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantClass.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassParser.java

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantFloat.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ArrayElementValue.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11Protocol.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AsyncStateMachine.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SendfileKeepAliveState.java

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AprEndpoint.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLUtil.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/Constants.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HPackHuffman.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSEKeyManager.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpNio2Protocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SendfileDataBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11NioProtocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2Exception.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Request.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/RequestGroupInfo.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/HttpMessages.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLConfCmd.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/Cipher.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/AbstractHttp11JsseProtocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/OutputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/VoidInputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HeaderSink.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/log/SystemLogHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AprSSLSupport.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeServletInputStream.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLSessionManager.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLHostConfigCertificate.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AbstractAjpProtocol.java
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jar/org/apache/tomcat/util/net/openssl/ciphers/OpenSSLCipherConfigurationParser.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/EncryptionLevel.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/AbstractStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/AbstractHttp11Protocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/CookieProcessor.java
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/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLConf.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketBufferHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketWrapperBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Response.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/ServerCookies.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HpackEncoder.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLImplementation.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/InternalHttpUpgradeHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11Nio2Protocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpProtocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/ServerCookie.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSEImplementation.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ConnectionSettingsLocal.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AbstractProcessorLight.java
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/tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/InputBuffer.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AsyncContextCallback.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/MimeHeaders.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/SavedRequestInputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2Protocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Constants.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpAprProtocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/TLSClientHelloExtractor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeServletOutputStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/StreamStateMachine.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ConnectionException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HpackException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ByteUtil.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AbstractProtocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AbstractProcessor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/IdentityInputFilter.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpNioProtocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/Constants.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Stream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSESupport.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ErrorState.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Constants.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantUtf8.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/Util.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/InputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2Parser.java

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/ChunkedInputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SendfileState.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/GzipOutputFilter.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/AcceptLanguage.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/StreamException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/Nio2Endpoint.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLHostConfig.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HpackDecoder.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/FrameType.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Constants.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/log/CaptureLog.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/IdentityOutputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11AprProtocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLSupport.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/HeadersTooLargeException.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Adapter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/MediaTypeCache.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/NioEndpoint.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpProcessor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/KeyExchange.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/StreamRunnable.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/ChunkedOutputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/Rfc6265CookieProcessor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/Authentication.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/LegacyCookieProcessor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeProcessorBase.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Processor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ProtocolHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/FastHttpDateFormat.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2OutputBuffer.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11InputBuffer.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketProcessorBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/RequestInfo.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLUtilBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ActionHook.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ConnectionSettingsRemote.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AbstractJsseEndpoint.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/Parameters.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/UpgradeToken.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Hpack.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpMessage.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/CookieProcessorBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/CloseNowException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ConnectionSettingsBase.java

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11Processor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/StreamProcessor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Utility.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketEvent.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11OutputBuffer.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ProtocolException.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2UpgradeHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/MediaType.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/OutputBuffer.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/res/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/LocalStrings.properties
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/LocalStrings.properties
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1.255 tomcat-websocket 8.5.32

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1.256 tomcat-jasper 8.5.32

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1.257 libpkit 0.23.10

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*
 /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagData.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/ELParseException.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspException.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagLibraryValidator.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspContext.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/DynamicAttributes.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TryCatchFinally.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/IterationTag.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/FunctionInfo.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/Tag.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagFileInfo.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/HttpJspPage.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagExtraInfo.java
*
 /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagInfo.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/SimpleTagSupport.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/JspFragment.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/FunctionMapper.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/ImplicitObjectELResolver.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspFactory.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspPage.java
```

* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagSupport.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/JspTag.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/PageData.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/Expression.java
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*
 /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/BodyTag.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/ErrorData.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/SkipPageException.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspApplicationContext.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspTagException.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagLibraryInfo.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/ExpressionEvaluator.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagAttributeInfo.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/BodyTagSupport.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/ScopedAttributeELResolver.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/ValidationMessage.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/VariableResolver.java
*
 /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagAdapter.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/VariableInfo.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagVariableInfo.java
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*
 /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/AuthConfig.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/module/ServerAuthModule.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ServerAuthConfig.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/ServerAuth.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/RegistrationListener.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ClientAuthContext.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ServerAuthContext.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/CallerPrincipalCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/MessagePolicy.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/AuthConfigFactory.java
*
 /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/AuthException.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ClientAuthConfig.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/SecretKeyCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/PasswordValidationCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/ClientAuth.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/module/ClientAuthModule.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/MessageInfo.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/TrustStoreCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/CertStoreCallback.java
*
 /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/PrivateKeyCallback.java
```

1.263 tomcat-i18n-ja 8.5.32

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1.268 python-setuptools 47.1.0

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1.269 nspr 4.29

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nickc@redhat.com and I'll correct the situation.

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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;
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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

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Version 2.1, February 1999

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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

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If such an object file uses only numerical parameters, data 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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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

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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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medium customarily used for software interchange.

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Section 6 states terms for distribution of such executables.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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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
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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
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the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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Version 3, 29 June 2007

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a

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and valid for as
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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
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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
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Corresponding Source in
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1.274 python-pip 20.1.1

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2.5	2.4	2006	PSF	yes
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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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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
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All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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1.275 urllib3 1.25.11

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In chronological order:

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

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

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

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

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

* brandon-rhodes <http://rhodesmill.org/brandon>

 * Design review, bugfixes, test coverage.

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

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

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

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

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield
 <https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

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

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer
 <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>

* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
* App Engine environment tests.
* Documentation re-write.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded
requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
* Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
* Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
 improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl 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 Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
 HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
 * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
 * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
 * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
 * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
 * Test improvements

* Chris Olufson <tycarac@gmail.com>
 * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
 * Support for logging session keys
 via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

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

1.276 urllib3 1.22

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In chronological order:

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

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*
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 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
 * App Engine environment tests.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded requests like GET.

* James
 Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>

* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
* Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
* Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes,
Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in ``stream`` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors

backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

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

1.277 pbr 3.1.1

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1.278 urllib3 1.25.3

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SOFTWARE.
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 <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

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 <asmeurer@gmail.com>
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 * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
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* 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 Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>

* Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

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

1.279 python-requests 2.22.0

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1.280 python-pip 19.2.3

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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

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In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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Foundation (PSF, see http://www.python.org/psf/) was formed, a
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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.284 godspeed-rpc 1.0.0-000

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1.285 bash 5.1.4

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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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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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End

1.289 binutils 2.35.50

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be
distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any
executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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If 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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1.292 go-toml 1.9.0

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1.293 avahi 0.6

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1.303 go-systemd 0.0.0-20190719114852-fd7a80b32e1f

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1.308 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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Gocheck - A rich testing framework for Go

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1.313 go-ntlmssp 0.0.0-20200615164410-66371956d46c

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1.314 go-autorest-to 0.4.0

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1.315 go-autorest-date 0.3.0

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1.316 fwd 1.1.1

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1.321 gogoprotobuf 1.3.2

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1.322 jcmturner-rpc 2.0.3

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1.325 karrick-godirwalk 1.16.1

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1.326 jcmturner-dnsutils 2.0.0

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1.327 josharian-intern 1.0.0

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1.330 go-openapi-jsonpointer 0.19.5

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1.331 xxhash 2.1.2

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1.332 go-openapi-jsonreference 0.19.5

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1.333 msgp 1.1.6

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1.334 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.335 x-text 0.3.7

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1.336 google-uuid 1.3.0

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1.337 urlesc 0.0.0-20170810143723-de5bf2ad4578

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1.338 xdg-stringprep 1.0.3

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1.339 grok 1.0.1

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1.340 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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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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1.343 go-asn1-ber-asn1-ber 1.5.1

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1.344 gopher-lua 0.0.0-20200816102855-ee81675732da

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1.345 go-ieproxy 0.0.1

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1.346 golang-sql-civil 0.0.0-20190719163853-cb61b32ac6fe

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1.347 dimchansky-utfbom 1.1.1

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1.352 fatih-pool 2.0.0

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1.361 go-isatty 0.0.14

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1.362 gopkg.in/fsnotify 1.4.7

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1.363 color 1.13.0

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1.364 golang-snappy 0.0.4

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1.365 go-hclog 0.16.2

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1.366 go-openapi-swag 0.19.15

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1.367 james4k-rcon 0.0.0-20120923215419-8fbb8268b60a

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1.369 pion-udp 0.1.1

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1.371 amir-raidman 0.0.0-20170415203553-1ccc43bfb9c9

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1.372 pkcs8 0.0.0-20201027041543-1326539a0a0a

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1.373 azure-storage-queue-go 0.0.0-20191125232315-636801874cdd

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1.374 nkeys 0.3.0

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1.376 github 32.1.0

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package github

import (
 "context"
 "fmt"
```

```
 "net/http"
 "testing"

 "github.com/google/go-cmp/cmp"
)

func TestRepositoryLicense_Marshal(t *testing.T) {
 testJSONMarshal(t, &RepositoryLicense{}, "{}")

 rl := &RepositoryLicense{
  Name:        String("n"),
  Path:        String("p"),
  SHA:         String("s"),
  Size:        Int(1),
  URL:         String("u"),
  HTMLURL:     String("h"),
  GitURL:      String("g"),
  DownloadURL: String("d"),
  Type:        String("t"),
  Content:     String("c"),
  Encoding:    String("e"),
  License: &License{
   Key:            String("k"),
   Name:           String("n"),
   URL:            String("u"),
   SPDXID:         String("s"),
   HTMLURL:        String("h"),
   Featured:       Bool(true),
   Description:    String("d"),
   Implementation: String("i"),
   Permissions:    &[]string{"p"},
   Conditions:
    &[]string{"c"},
   Limitations:    &[]string{"l"},
   Body:           String("b"),
  },
 }
 want := `{
  "name": "n",
  "path": "p",
  "sha": "s",
  "size": 1,
  "url": "u",
  "html_url": "h",
  "git_url": "g",
  "download_url": "d",
  "type": "t",
  "content": "c",
```

```
 "encoding": "e",
 "license": {
  "key": "k",
  "name": "n",
  "url": "u",
  "spdx_id": "s",
  "html_url": "h",
  "featured": true,
  "description": "d",
  "implementation": "i",
  "permissions": ["p"],
  "conditions": ["c"],
  "limitations": ["l"],
  "body": "b"
 }
}`
 testJSONMarshal(t, rl, want)
}

func TestLicense_Marshal(t *testing.T) {
 testJSONMarshal(t, &License{}, "{}")

 l := &License{
  Key:            String("k"),
  Name:           String("n"),
  URL:            String("u"),
  SPDXID:         String("s"),
  HTMLURL:        String("h"),
  Featured:       Bool(true),
  Description:    String("d"),
  Implementation: String("i"),
  Permissions:    &[]string{"p"},
  Conditions:
    &[]string{"c"},
  Limitations:    &[]string{"l"},
  Body:           String("b"),
 }
 want := `{
  "key": "k",
  "name": "n",
  "url": "u",
  "spdx_id": "s",
  "html_url": "h",
  "featured": true,
  "description": "d",
  "implementation": "i",
  "permissions": ["p"],
  "conditions": ["c"],
```

```
 "limitations": ["l"],
 "body": "b"
}`
 testJSONMarshal(t, l, want)
}

func TestLicensesService_List(t *testing.T) {
 client, mux, _, teardown := setup()
 defer teardown()

 mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, "GET")
  fmt.Fprint(w,
`[{"key":"mit","name":"MIT","spdx_id":"MIT","url":"https://api.github.com/licenses/mit","featured":true}]`)
 })

 ctx := context.Background()
 licenses, _, err := client.Licenses.List(ctx)
 if err != nil {
  t.Errorf("Licenses.List returned error: %v", err)
 }

 want := []*License{{
  Key:      String("mit"),
  Name:     String("MIT"),
  SPDXID:   String("MIT"),
  URL:      String("https://api.github.com/licenses/mit"),
  Featured:
 Bool(true),
 }}
 if !cmp.Equal(licenses, want) {
  t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
 }

 const methodName = "List"
 testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.List(ctx)
  if got != nil {
   t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
 })
}

func TestLicensesService_Get(t *testing.T) {
 client, mux, _, teardown := setup()
 defer teardown()
```

```
 mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, "GET")
  fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
 })

 ctx := context.Background()
 license, _, err := client.Licenses.Get(ctx, "mit")
 if err != nil {
  t.Errorf("Licenses.Get returned error: %v", err)
 }

 want := &License{Key: String("mit"), Name: String("MIT")}
 if !cmp.Equal(license, want) {
  t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
 }

 const
 methodName = "Get"
 testBadOptions(t, methodName, func() (err error) {
  _, _, err = client.Licenses.Get(ctx, "\n")
  return err
 })

 testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.Get(ctx, "mit")
  if got != nil {
   t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
 })
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
 client, _, _, teardown := setup()
 defer teardown()

 ctx := context.Background()
 _, _, err := client.Licenses.Get(ctx, "%")
 testURLParseError(t, err)
}
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package github

import (
```

```
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding
   *string  `json:"encoding,omitempty"`
 License     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID         *string   `json:"spdx_id,omitempty"`
 HTMLURL        *string   `json:"html_url,omitempty"`
 Featured       *bool     `json:"featured,omitempty"`
 Description    *string   `json:"description,omitempty"`
 Implementation *string   `json:"implementation,omitempty"`
 Permissions    *[]string `json:"permissions,omitempty"`
 Conditions     *[]string `json:"conditions,omitempty"`
 Limitations    *[]string `json:"limitations,omitempty"`
 Body           *string   `json:"body,omitempty"`
}
```

```
func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func
 (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }

 license := new(License)
 resp, err := s.client.Do(ctx, req, license)
 if err != nil {
  return nil, resp, err
 }

 return license, resp, nil
}
```

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1.377 alecthomas-participle 0.4.1

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1.378 pion-logging 0.2.2

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1.380 jhump-protoreflect 1.8.3-0.20210616212123-6cc1efa697ca

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1.381 influxdata-go-syslog 3.0.0

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1.382 aristanetworks-glog 0.0.0-20191112221043-67e8567f59f3

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1.383 leodido-ragel-machinery 0.0.0-20181214104525-299bdde78165

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tomb - support for clean goroutine termination in Go.

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1.386 go-zookeeper 0.0.0-20200724154423-2164a8ac840e

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1.388 doclambda-protobufquery 0.0.0-20210317203640-88ffabe06a60

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1.389 applicationinsights-go 0.4.4

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1.390 x-term 0.0.0-20210927222741-03fcf44c2211

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1.391 namespace 1.4.01

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lib/erl/src/Makefile.am

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```
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```
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
```

```
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1.394 pkg-browser 0.0.0-20210911075715-681adbf594b8

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1.395 harlow-kinesis-consumer 0.3.6-0.20210911031324-5a873d6e9fec

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1.397 sapm-proto 0.7.2

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1.399 jaeger 1.26.0

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1.400 apache-arrow-go-arrow 0.0.0-20211006091945-a69884db78f4

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Telegraf Configuration
#
Telegraf is entirely plugin driven. All metrics are gathered from the
declared inputs, and sent to the declared outputs.
#
Plugins must be declared in here to be active.
To deactivate a plugin, comment out the name and any variables.
#
Use 'telegraf -config telegraf.conf -test' to see what metrics a config
file would generate.
#
Environment variables can be used anywhere in this config file, simply surround
them with ${}. For strings the variable must be within quotes (ie, "${STR_VAR}"),
for numbers and booleans they should be plain (ie, ${INT_VAR}, ${BOOL_VAR})

Global tags can be specified here in key="value" format.
[global_tags]
 # dc = "us-east-1" # will tag all metrics with dc=us-east-1
 # rack = "1a"
 ## Environment variables can be used as tags, and throughout the config file
 # user = "$USER"

Configuration for telegraf agent
[agent]
 ## Default data collection

```
interval for all inputs
interval = "10s"
## Rounds collection interval to 'interval'
## ie, if interval="10s" then always collect on :00, :10, :20, etc.
round_interval = true

## Telegraf will send metrics to outputs in batches of at most
## metric_batch_size metrics.
## This controls the size of writes that Telegraf sends to output plugins.
metric_batch_size = 1000

## Maximum number of unwritten metrics per output.  Increasing this value
## allows for longer periods of output downtime without dropping metrics at the
## cost of higher maximum memory usage.
metric_buffer_limit = 10000

## Collection jitter is used to jitter the collection by a random amount.
## Each plugin will sleep for a random time within jitter before collecting.
## This can be used to avoid many plugins querying things like sysfs at the
## same time, which can have a measurable effect on the system.
collection_jitter = "0s"

## Default flushing interval for all outputs.
Maximum flush_interval will be
## flush_interval + flush_jitter
flush_interval = "10s"
## Jitter the flush interval by a random amount. This is primarily to avoid
## large write spikes for users running a large number of telegraf instances.
## ie, a jitter of 5s and interval 10s means flushes will happen every 10-15s
flush_jitter = "0s"

## By default or when set to "0s", precision will be set to the same
## timestamp order as the collection interval, with the maximum being 1s.
##   ie, when interval = "10s", precision will be "1s"
##       when interval = "250ms", precision will be "1ms"
## Precision will NOT be used for service inputs. It is up to each individual
## service input to set the timestamp at the appropriate precision.
## Valid time units are "ns", "us" (or "µs"), "ms", "s".
precision = ""

## Log at debug level.
# debug = false
## Log only error level messages.
# quiet = false

## Log target controls the destination for logs and can
be one of "file",
## "stderr" or, on Windows, "eventlog".  When set to "file", the output file
```

```
## is determined by the "logfile" setting.
# logtarget = "file"

## Name of the file to be logged to when using the "file" logtarget.  If set to
## the empty string then logs are written to stderr.
# logfile = ""

## The logfile will be rotated after the time interval specified.  When set
## to 0 no time based rotation is performed.  Logs are rotated only when
## written to, if there is no log activity rotation may be delayed.
# logfile_rotation_interval = "0d"

## The logfile will be rotated when it becomes larger than the specified
## size.  When set to 0 no size based rotation is performed.
# logfile_rotation_max_size = "0MB"

## Maximum number of rotated archives to keep, any older logs are deleted.
## If set to -1, no archives are removed.
# logfile_rotation_max_archives = 5

## Pick a timezone to use when logging or type 'local' for local time.
## Example:
America/Chicago
# log_with_timezone = ""

## Override default hostname, if empty use os.Hostname()
hostname = ""
## If set to true, do no set the "host" tag in the telegraf agent.
omit_hostname = false

###############################################################################
#                            OUTPUT PLUGINS                                   #
###############################################################################


# Configuration for sending metrics to InfluxDB
[[outputs.influxdb]]
## The full HTTP or UDP URL for your InfluxDB instance.
##
## Multiple URLs can be specified for a single cluster, only ONE of the
## urls will be written to each interval.
# urls = ["unix:///var/run/influxdb.sock"]
# urls = ["udp://127.0.0.1:8089"]
# urls = ["http://127.0.0.1:8086"]

## The target database for metrics; will be created as needed.
## For UDP url endpoint database needs to be configured on server side.
# database = "telegraf"
```

```
##
The value of this tag will be used to determine the database.  If this
## tag is not set the 'database' option is used as the default.
# database_tag = ""

## If true, the 'database_tag' will not be included in the written metric.
# exclude_database_tag = false

## If true, no CREATE DATABASE queries will be sent.  Set to true when using
## Telegraf with a user without permissions to create databases or when the
## database already exists.
# skip_database_creation = false

## Name of existing retention policy to write to.  Empty string writes to
## the default retention policy.  Only takes effect when using HTTP.
# retention_policy = ""

## The value of this tag will be used to determine the retention policy.  If this
## tag is not set the 'retention_policy' option is used as the default.
# retention_policy_tag = ""

## If true, the 'retention_policy_tag' will not be included in the written metric.
# exclude_retention_policy_tag = false

## Write consistency
(clusters only), can be: "any", "one", "quorum", "all".
## Only takes effect when using HTTP.
# write_consistency = "any"

## Timeout for HTTP messages.
# timeout = "5s"

## HTTP Basic Auth
# username = "telegraf"
# password = "metricsmetricsmetricsmetrics"

## HTTP User-Agent
# user_agent = "telegraf"

## UDP payload size is the maximum packet size to send.
# udp_payload = "512B"

## Optional TLS Config for use on HTTP connections.
# tls_ca = "/etc/telegraf/ca.pem"
# tls_cert = "/etc/telegraf/cert.pem"
# tls_key = "/etc/telegraf/key.pem"
## Use TLS but skip chain & host verification
```

```
# insecure_skip_verify = false

## HTTP Proxy override, if unset values the standard proxy environment
## variables are consulted to determine which proxy, if any, should be used.
# http_proxy = "http://corporate.proxy:3128"

## Additional HTTP headers
# http_headers = {"X-Special-Header" = "Special-Value"}

## HTTP Content-Encoding for write request body,
can be set to "gzip" to
## compress body or "identity" to apply no encoding.
# content_encoding = "gzip"

## When true, Telegraf will output unsigned integers as unsigned values,
## i.e.: "42u".  You will need a version of InfluxDB supporting unsigned
## integer values.  Enabling this option will result in field type errors if
## existing data has been written.
# influx_uint_support = false


# # Configuration for Amon Server to send metrics to.
# [[outputs.amon]]
#   ## Amon Server Key
#   server_key = "my-server-key" # required.
#
#   ## Amon Instance URL
#   amon_instance = "https://youramoninstance" # required
#
#   ## Connection timeout.
#   # timeout = "5s"


# # Publishes metrics to an AMQP broker
# [[outputs.amqp]]
#   ## Broker to publish to.
#   ##   deprecated in 1.7; use the brokers option
#   # url = "amqp://localhost:5672/influxdb"
#
#   ## Brokers to publish to.  If multiple brokers are specified a random broker
#   ## will be selected anytime a connection
 is established.  This can be
#   ## helpful for load balancing when not using a dedicated load balancer.
#   brokers = ["amqp://localhost:5672/influxdb"]
#
#   ## Maximum messages to send over a connection.  Once this is reached, the
#   ## connection is closed and a new connection is made.  This can be helpful for
#   ## load balancing when not using a dedicated load balancer.
```

```
#   # max_messages = 0
#
#   ## Exchange to declare and publish to.
#   exchange = "telegraf"
#
#   ## Exchange type; common types are "direct", "fanout", "topic", "header", "x-consistent-hash".
#   # exchange_type = "topic"
#
#   ## If true, exchange will be passively declared.
#   # exchange_passive = false
#
#   ## Exchange durability can be either "transient" or "durable".
#   # exchange_durability = "durable"
#
#   ## Additional exchange arguments.
#   # exchange_arguments = { }
#   # exchange_arguments = {"hash_property" = "timestamp"}
#
#   ## Authentication credentials for the PLAIN auth_method.
#
 # username = ""
#   # password = ""
#
#   ## Auth method. PLAIN and EXTERNAL are supported
#   ## Using EXTERNAL requires enabling the rabbitmq_auth_mechanism_ssl plugin as
#   ## described here: https://www.rabbitmq.com/plugins.html
#   # auth_method = "PLAIN"
#
#   ## Metric tag to use as a routing key.
#   ##   ie, if this tag exists, its value will be used as the routing key
#   # routing_tag = "host"
#
#   ## Static routing key.  Used when no routing_tag is set or as a fallback
#   ## when the tag specified in routing tag is not found.
#   # routing_key = ""
#   # routing_key = "telegraf"
#
#   ## Delivery Mode controls if a published message is persistent.
#   ##   One of "transient" or "persistent".
#   # delivery_mode = "transient"
#
#   ## InfluxDB database added as a message header.
#   ##   deprecated in 1.7; use the headers option
#   # database = "telegraf"
#
#   ## InfluxDB retention policy added as a message header
#   ##   deprecated in 1.7; use the headers option
#   #
```

```
 retention_policy = "default"
#
#   ## Static headers added to each published message.
#   # headers = { }
#   # headers = {"database" = "telegraf", "retention_policy" = "default"}
#
#   ## Connection timeout.  If not provided, will default to 5s.  0s means no
#   ## timeout (not recommended).
#   # timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## If true use batch serialization format instead of line based delimiting.
#   ## Only applies to data formats which are not line based such as JSON.
#   ## Recommended to set to true.
#   # use_batch_format = false
#
#   ## Content encoding for message payloads, can be set to "gzip" to or
#   ## "identity" to apply no encoding.
#   ##
#   ## Please note that when use_batch_format = false each amqp message contains only
#   ## a single metric,
 it is recommended to use compression with batch format
#   ## for best results.
#   # content_encoding = "identity"
#
#   ## Data format to output.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   # data_format = "influx"


# # Send metrics to Azure Application Insights
# [[outputs.application_insights]]
#   ## Instrumentation key of the Application Insights resource.
#   instrumentation_key = "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx"
#
#   ## Regions that require endpoint modification https://docs.microsoft.com/en-us/azure/azure-monitor/app/custom-endpoints
#   # endpoint_url = "https://dc.services.visualstudio.com/v2/track"
#
#   ## Timeout for closing (default: 5s).
```

```
#   # timeout = "5s"
#
#   ## Enable additional diagnostic logging.
#   # enable_diagnostic_logging = false
#
#   ## Context Tag Sources add Application Insights context tags to
 a tag value.
#   ##
#   ## For list of allowed context tag keys see:
#   ## https://github.com/microsoft/ApplicationInsights-Go/blob/master/appinsights/contracts/contexttagkeys.go
#   # [outputs.application_insights.context_tag_sources]
#   #   "ai.cloud.role" = "kubernetes_container_name"
#   #   "ai.cloud.roleInstance" = "kubernetes_pod_name"


# # Sends metrics to Azure Data Explorer
# [[outputs.azure_data_explorer]]
#   ## Azure Data Explorer cluster endpoint
#   ## ex: endpoint_url = "https://clustername.australiasoutheast.kusto.windows.net"
#   endpoint_url = ""
#
#   ## The Azure Data Explorer database that the metrics will be ingested into.
#   ## The plugin will NOT generate this database automatically, it's expected that this database already exists before
ingestion.
#   ## ex: "exampledatabase"
#   database = ""
#
#   ## Timeout for Azure Data Explorer operations
#   # timeout = "20s"
#
#   ## Type of metrics grouping used when pushing to Azure Data Explorer.
#   ## Default
 is "TablePerMetric" for one table per different metric.
#   ## For more information, please check the plugin README.
#   # metrics_grouping_type = "TablePerMetric"
#
#   ## Name of the single table to store all the metrics (Only needed if metrics_grouping_type is "SingleTable").
#   # table_name = ""
#
#   ## Creates tables and relevant mapping if set to true(default).
#   ## Skips table and mapping creation if set to false, this is useful for running Telegraf with the lowest possible
permissions i.e. table ingestor role.
#   # create_tables = true


# # Send aggregate metrics to Azure Monitor
# [[outputs.azure_monitor]]
#   ## Timeout for HTTP writes.
```

```
#   # timeout = "20s"
#
#   ## Set the namespace prefix, defaults to "Telegraf/<input-name>".
#   # namespace_prefix = "Telegraf/"
#
#   ## Azure Monitor doesn't have a string value type, so convert string
#   ## fields to dimensions (a.k.a. tags) if enabled. Azure Monitor allows
#   ## a maximum of 10 dimensions so Telegraf will only
 send the first 10
#   ## alphanumeric dimensions.
#   # strings_as_dimensions = false
#
#   ## Both region and resource_id must be set or be available via the
#   ## Instance Metadata service on Azure Virtual Machines.
#   #
#   ## Azure Region to publish metrics against.
#   ##   ex: region = "southcentralus"
#   # region = ""
#   #
#   ## The Azure Resource ID against which metric will be logged, e.g.
#   ##   ex: resource_id =
"/subscriptions/<subscription_id>/resourceGroups/<resource_group>/providers/Microsoft.Compute/virtualMachines
/<vm_name>"
#   # resource_id = ""
#
#   ## Optionally, if in Azure US Government, China or other sovereign
#   ## cloud environment, set appropriate REST endpoint for receiving
#   ## metrics. (Note: region may be unused in this context)
#   # endpoint_url = "https://monitoring.core.usgovcloudapi.net"


# # Configuration for Google Cloud BigQuery to send entries
# [[outputs.bigquery]]
#   ## Credentials File
#   credentials_file = "/path/to/service/account/key.json"
#
#
  ## Google Cloud Platform Project
#   project = "my-gcp-project"
#
#   ## The namespace for the metric descriptor
#   dataset = "telegraf"
#
#   ## Timeout for BigQuery operations.
#   # timeout = "5s"
#
#   ## Character to replace hyphens on Metric name
#   # replace_hyphen_to = "_"
```

```
# # Publish Telegraf metrics to a Google Cloud PubSub topic
# [[outputs.cloud_pubsub]]
#   ## Required. Name of Google Cloud Platform (GCP) Project that owns
#   ## the given PubSub topic.
#   project = "my-project"
#
#   ## Required. Name of PubSub topic to publish metrics to.
#   topic = "my-topic"
#
#   ## Required. Data format to consume.
#   ## Each data format has its own unique set of configuration options.
#   ## Read more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"
#
#   ## Optional. Filepath for GCP credentials JSON file to authorize calls to
#   ## PubSub APIs. If not set explicitly, Telegraf
 will attempt to use
#   ## Application Default Credentials, which is preferred.
#   # credentials_file = "path/to/my/creds.json"
#
#   ## Optional. If true, will send all metrics per write in one PubSub message.
#   # send_batched = true
#
#   ## The following publish_* parameters specifically configures batching
#   ## requests made to the GCP Cloud PubSub API via the PubSub Golang library. Read
#   ## more here: https://godoc.org/cloud.google.com/go/pubsub#PublishSettings
#
#   ## Optional. Send a request to PubSub (i.e. actually publish a batch)
#   ## when it has this many PubSub messages. If send_batched is true,
#   ## this is ignored and treated as if it were 1.
#   # publish_count_threshold = 1000
#
#   ## Optional. Send a request to PubSub (i.e. actually publish a batch)
#   ## when it has this many PubSub messages. If send_batched is true,
#   ## this is ignored and treated as if it were 1
#   # publish_byte_threshold = 1000000
#
#   ## Optional. Specifically configures requests
 made to the PubSub API.
#   # publish_num_go_routines = 2
#
#   ## Optional. Specifies a timeout for requests to the PubSub API.
#   # publish_timeout = "30s"
#
#   ## Optional. If true, published PubSub message data will be base64-encoded.
```

```
#   # base64_data = false
#
#   ## Optional. PubSub attributes to add to metrics.
#   # [outputs.cloud_pubsub.attributes]
#   #   my_attr = "tag_value"


# # Configuration for AWS CloudWatch output.
# [[outputs.cloudwatch]]
#   ## Amazon REGION
#   region = "us-east-1"
#
#   ## Amazon Credentials
#   ## Credentials are loaded in the following order
#   ## 1) Web identity provider credentials via STS if role_arn and web_identity_token_file are specified
#   ## 2) Assumed credentials via STS if role_arn is specified
#   ## 3) explicit credentials from 'access_key' and 'secret_key'
#   ## 4) shared profile from 'profile'
#   ## 5) environment variables
#   ## 6) shared credentials file
#   ## 7) EC2 Instance Profile
#   #access_key = ""
#   #secret_key
 = ""
#   #token = ""
#   #role_arn = ""
#   #web_identity_token_file = ""
#   #role_session_name = ""
#   #profile = ""
#   #shared_credential_file = ""
#
#   ## Endpoint to make request against, the correct endpoint is automatically
#   ## determined and this option should only be set if you wish to override the
#   ## default.
#   ##   ex: endpoint_url = "http://localhost:8000"
#   # endpoint_url = ""
#
#   ## Namespace for the CloudWatch MetricDatums
#   namespace = "InfluxData/Telegraf"
#
#   ## If you have a large amount of metrics, you should consider to send statistic
#   ## values instead of raw metrics which could not only improve performance but
#   ## also save AWS API cost. If enable this flag, this plugin would parse the required
#   ## CloudWatch statistic fields (count, min, max, and sum) and send them to CloudWatch.
#   ## You could use basicstats aggregator to calculate those fields. If not all statistic
#   ## fields are available, all fields would still be sent
 as raw metrics.
#   # write_statistics = false
```

```
#
#   ## Enable high resolution metrics of 1 second (if not enabled, standard resolution are of 60 seconds precision)
#   # high_resolution_metrics = false


# # Configuration for AWS CloudWatchLogs output.
# [[outputs.cloudwatch_logs]]
# ## The region is the Amazon region that you wish to connect to.
# ## Examples include but are not limited to:
# ## - us-west-1
# ## - us-west-2
# ## - us-east-1
# ## - ap-southeast-1
# ## - ap-southeast-2
# ## ...
# region = "us-east-1"
#
# ## Amazon Credentials
# ## Credentials are loaded in the following order
# ## 1) Web identity provider credentials via STS if role_arn and web_identity_token_file are specified
# ## 2) Assumed credentials via STS if role_arn is specified
# ## 3) explicit credentials from 'access_key' and 'secret_key'
# ## 4) shared profile from 'profile'
# ## 5) environment variables
# ## 6) shared credentials file
# ## 7) EC2 Instance Profile
# #access_key = ""
# #secret_key = ""
#
 #token = ""
# #role_arn = ""
# #web_identity_token_file = ""
# #role_session_name = ""
# #profile = ""
# #shared_credential_file = ""
#
# ## Endpoint to make request against, the correct endpoint is automatically
# ## determined and this option should only be set if you wish to override the
# ## default.
# ##   ex: endpoint_url = "http://localhost:8000"
# # endpoint_url = ""
#
# ## Cloud watch log group. Must be created in AWS cloudwatch logs upfront!
# ## For example, you can specify the name of the k8s cluster here to group logs from all cluster in oine place
# log_group = "my-group-name"
#
# ## Log stream in log group
# ## Either log group name or reference to metric attribute, from which it can be parsed:
```

```
# ## tag:<TAG_NAME> or field:<FIELD_NAME>. If log stream is not exist, it will be created.
# ## Since AWS is not automatically delete logs streams with expired logs entries (i.e. empty log stream)
# ## you need to put in place appropriate house-keeping
(https://forums.aws.amazon.com/thread.jspa?threadID=178855)
#
 log_stream = "tag:location"
#
# ## Source of log data - metric name
# ## specify the name of the metric, from which the log data should be retrieved.
# ## I.e., if you  are using docker_log plugin to stream logs from container, then
# ## specify log_data_metric_name  = "docker_log"
# log_data_metric_name  = "docker_log"
#
# ## Specify from which metric attribute the log data should be retrieved:
# ## tag:<TAG_NAME> or field:<FIELD_NAME>.
# ## I.e., if you  are using docker_log plugin to stream logs from container, then
# ## specify log_data_source  = "field:message"
# log_data_source  = "field:message"


# # Configuration for CrateDB to send metrics to.
# [[outputs.cratedb]]
#   # A github.com/jackc/pgx/v4 connection string.
#   # See https://pkg.go.dev/github.com/jackc/pgx/v4#ParseConfig
#   url = "postgres://user:password@localhost/schema?sslmode=disable"
#   # Timeout for all CrateDB queries.
#   timeout = "5s"
#   # Name of the table to store metrics
 in.
#   table = "metrics"
#   # If true, and the metrics table does not exist, create it automatically.
#   table_create = true
#   # The character(s) to replace any '.' in an object key with
#   key_separator = "_"


# # Configuration for DataDog API to send metrics to.
# [[outputs.datadog]]
#   ## Datadog API key
#   apikey = "my-secret-key"
#
#   ## Connection timeout.
#   # timeout = "5s"
#
#   ## Write URL override; useful for debugging.
#   # url = "https://app.datadoghq.com/api/v1/series"
#
#   ## Set http_proxy (telegraf uses the system wide proxy settings if it isn't set)
```

```
#   # http_proxy_url = "http://localhost:8888"


# # Send metrics to nowhere at all
# [[outputs.discard]]
#   # no configuration


# # Send telegraf metrics to a Dynatrace environment
# [[outputs.dynatrace]]
#   ## For usage with the Dynatrace OneAgent you can omit any configuration,
#   ## the only requirement is that the OneAgent is running on the same host.
#   ## Only setup environment url and token if
 you want to monitor a Host without the OneAgent present.
#   ##
#   ## Your Dynatrace environment URL.
#   ## For Dynatrace OneAgent you can leave this empty or set it to "http://127.0.0.1:14499/metrics/ingest" (default)
#   ## For Dynatrace SaaS environments the URL scheme is "https://{your-environment-
id}.live.dynatrace.com/api/v2/metrics/ingest"
#   ## For Dynatrace Managed environments the URL scheme is "https://{your-domain}/e/{your-environment-
id}/api/v2/metrics/ingest"
#   url = ""
#
#   ## Your Dynatrace API token.
#   ## Create an API token within your Dynatrace environment, by navigating to Settings > Integration > Dynatrace
API
#   ## The API token needs data ingest scope permission. When using OneAgent, no API token is required.
#   api_token = ""
#
#   ## Optional prefix for metric names (e.g.: "telegraf")
#   prefix = "telegraf"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
#
   ## Optional flag for ignoring tls certificate check
#   # insecure_skip_verify = false
#
#
#   ## Connection timeout, defaults to "5s" if not set.
#   timeout = "5s"
#
#   ## If you want metrics to be treated and reported as delta counters, add the metric names here
#   additional_counters = [ ]
#
```

```
#   ## Optional dimensions to be added to every metric
#   # [outputs.dynatrace.default_dimensions]
#   # default_key = "default value"


# # Configuration for Elasticsearch to send metrics to.
# [[outputs.elasticsearch]]
#   ## The full HTTP endpoint URL for your Elasticsearch instance
#   ## Multiple urls can be specified as part of the same cluster,
#   ## this means that only ONE of the urls will be written to each interval.
#   urls = [ "http://node1.es.example.com:9200" ] # required.
#   ## Elasticsearch client timeout, defaults to "5s" if not set.
#   timeout = "5s"
#   ## Set to true to ask Elasticsearch a list of all cluster nodes,
#   ## thus it is not necessary to list
 all nodes in the urls config option.
#   enable_sniffer = false
#   ## Set to true to enable gzip compression
#   enable_gzip = false
#   ## Set the interval to check if the Elasticsearch nodes are available
#   ## Setting to "0s" will disable the health check (not recommended in production)
#   health_check_interval = "10s"
#   ## HTTP basic authentication details
#   # username = "telegraf"
#   # password = "mypassword"
#
#   ## Index Config
#   ## The target index for metrics (Elasticsearch will create if it not exists).
#   ## You can use the date specifiers below to create indexes per time frame.
#   ## The metric timestamp will be used to decide the destination index name
#   # %Y - year (2016)
#   # %y - last two digits of year (00..99)
#   # %m - month (01..12)
#   # %d - day of month (e.g., 01)
#   # %H - hour (00..23)
#   # %V - week of the year (ISO week) (01..53)
#   ## Additionally, you can specify a tag name using the notation {{tag_name}}
#   ## which will be used as part
 of the index name. If the tag does not exist,
#   ## the default tag value will be used.
#   # index_name = "telegraf-{{host}}-%Y.%m.%d"
#   # default_tag_value = "none"
#   index_name = "telegraf-%Y.%m.%d" # required.
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
```

```
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Template Config
#   ## Set to true if you want telegraf to manage its index template.
#   ## If enabled it will create a recommended index template for telegraf indexes
#   manage_template = true
#   ## The template name used for telegraf indexes
#   template_name = "telegraf"
#   ## Set to true if you want telegraf to overwrite an existing template
#   overwrite_template = false
#   ## If set to true a unique ID hash will be sent as sha256(concat(timestamp,measurement,series-hash)) string
#   ## it will enable data resend and update
 metric points avoiding duplicated metrics with diferent id's
#   force_document_id = false
#
#   ## Specifies the handling of NaN and Inf values.
#   ## This option can have the following values:
#   ##    none    -- do not modify field-values (default); will produce an error if NaNs or infs are encountered
#   ##    drop    -- drop fields containing NaNs or infs
#   ##    replace -- replace with the value in "float_replacement_value" (default: 0.0)
#   ##               NaNs and inf will be replaced with the given number, -inf with the negative of that number
#   # float_handling = "none"
#   # float_replacement_value = 0.0


# # Configuration for Event Hubs output plugin
# [[outputs.event_hubs]]
#   ## The full connection string to the Event Hub (required)
#   ## The shared access key must have "Send" permissions on the target Event Hub.
#   connection_string =
"Endpoint=sb://namespace.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey;Share
dAccessKey=superSecret1234=;EntityPath=hubName"
#
#
   ## Client timeout (defaults to 30s)
#   # timeout = "30s"
#
#   ## Data format to output.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   data_format = "json"


# # Send metrics to command as input over stdin
# [[outputs.exec]]
#   ## Command to ingest metrics via stdin.
```

```
#   command = ["tee", "-a", "/dev/null"]
#
#   ## Timeout for command to complete.
#   # timeout = "5s"
#
#   ## Data format to output.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   # data_format = "influx"


# # Run executable as long-running output plugin
# [[outputs.execd]]
#   ## Program to run as daemon
#   command = ["my-telegraf-output", "--some-flag", "value"]
#
#   ## Delay before the
 process is restarted after an unexpected termination
#   restart_delay = "10s"
#
#   ## Data format to export.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   data_format = "influx"


# # Send telegraf metrics to file(s)
# [[outputs.file]]
#   ## Files to write to, "stdout" is a specially handled file.
#   files = ["stdout", "/tmp/metrics.out"]
#
#   ## Use batch serialization format instead of line based delimiting.  The
#   ## batch format allows for the production of non line based output formats and
#   ## may more efficiently encode metric groups.
#   # use_batch_format = false
#
#   ## The file will be rotated after the time interval specified.  When set
#   ## to 0 no time based rotation is performed.
#   # rotation_interval = "0d"
#
#   ## The logfile will be rotated when it becomes larger than the specified
#   ## size.  When set
 to 0 no size based rotation is performed.
#   # rotation_max_size = "0MB"
#
#   ## Maximum number of rotated archives to keep, any older logs are deleted.
```

```
#   ## If set to -1, no archives are removed.
#   # rotation_max_archives = 5
#
#   ## Data format to output.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   data_format = "influx"


# # Configuration for Graphite server to send metrics to
# [[outputs.graphite]]
#   ## TCP endpoint for your graphite instance.
#   ## If multiple endpoints are configured, output will be load balanced.
#   ## Only one of the endpoints will be written to with each iteration.
#   servers = ["localhost:2003"]
#   ## Prefix metrics name
#   prefix = ""
#   ## Graphite output template
#   ## see https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   template = "host.tags.measurement.field"
#
#
   ## Enable Graphite tags support
#   # graphite_tag_support = false
#
#   ## Define how metric names and tags are sanitized; options are "strict", or "compatible"
#   ## strict - Default method, and backwards compatible with previous versionf of Telegraf
#   ## compatible - More relaxed sanitizing when using tags, and compatible with the graphite spec
#   # graphite_tag_sanitize_mode = "strict"
#
#   ## Character for separating metric name and field for Graphite tags
#   # graphite_separator = "."
#
#   ## Graphite templates patterns
#   ## 1. Template for cpu
#   ## 2. Template for disk*
#   ## 3. Default template
#   # templates = [
#   #  "cpu tags.measurement.host.field",
#   #  "disk* measurement.field",
#   #  "host.measurement.tags.field"
#   #]
#
#   ## timeout in seconds for the write connection to graphite
#   timeout = 2
#
#   ## Optional TLS Config
```

```
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
  ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Send telegraf metrics to graylog
# [[outputs.graylog]]
#   ## Endpoints for your graylog instances.
#   servers = ["udp://127.0.0.1:12201"]
#
#   ## Connection timeout.
#   # timeout = "5s"
#
#   ## The field to use as the GELF short_message, if unset the static string
#   ## "telegraf" will be used.
#   ##   example: short_message_field = "message"
#   # short_message_field = ""
#
#   ## According to GELF payload specification, additional fields names must be prefixed
#   ## with an underscore. Previous versions did not prefix custom field 'name' with underscore.
#   ## Set to true for backward compatibility.
#   # name_field_no_prefix = false
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Send telegraf
 metrics to GroundWork Monitor
# [[outputs.groundwork]]
#   ## URL of your groundwork instance.
#   url = "https://groundwork.example.com"
#
#   ## Agent uuid for GroundWork API Server.
#   agent_id = ""
#
#   ## Username and password to access GroundWork API.
#   username = ""
#   password = ""
#
#   ## Default display name for the host with services(metrics).
```

```
#   # default_host = "telegraf"
#
#   ## Default service state.
#   # default_service_state = "SERVICE_OK"
#
#   ## The name of the tag that contains the hostname.
#   # resource_tag = "host"


# # Configurable HTTP health check resource based on metrics
# [[outputs.health]]
#   ## Address and port to listen on.
#   ##   ex: service_address = "http://localhost:8080"
#   ##       service_address = "unix:///var/run/telegraf-health.sock"
#   # service_address = "http://:8080"
#
#   ## The maximum duration for reading the entire request.
#   # read_timeout = "5s"
#   ## The maximum duration for writing the entire response.
#   #
 write_timeout = "5s"
#
#   ## Username and password to accept for HTTP basic authentication.
#   # basic_username = "user1"
#   # basic_password = "secret"
#
#   ## Allowed CA certificates for client certificates.
#   # tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#
#   ## TLS server certificate and private key.
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
#   ## One or more check sub-tables should be defined, it is also recommended to
#   ## use metric filtering to limit the metrics that flow into this output.
#   ##
#   ## When using the default buffer sizes, this example will fail when the
#   ## metric buffer is half full.
#   ##
#   ## namepass = ["internal_write"]
#   ## tagpass = { output = ["influxdb"] }
#   ##
#   ## [[outputs.health.compares]]
#   ##   field = "buffer_size"
#   ##   lt = 5000.0
#   ##
#   ## [[outputs.health.contains]]
#   ##   field = "buffer_size"
```

```
# # A plugin that can transmit metrics over HTTP
# [[outputs.http]]
#
  ## URL is the address to send metrics to
#   url = "http://127.0.0.1:8080/telegraf"
#
#   ## Timeout for HTTP message
#   # timeout = "5s"
#
#   ## HTTP method, one of: "POST" or "PUT"
#   # method = "POST"
#
#   ## HTTP Basic Auth credentials
#   # username = "username"
#   # password = "pa$$word"
#
#   ## OAuth2 Client Credentials Grant
#   # client_id = "clientid"
#   # client_secret = "secret"
#   # token_url = "https://indentityprovider/oauth2/v1/token"
#   # scopes = ["urn:opc:idm:__myscopes__"]
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Optional Cookie authentication
#   # cookie_auth_url = "https://localhost/authMe"
#   # cookie_auth_method = "POST"
#   # cookie_auth_username = "username"
#   # cookie_auth_password = "pa$$word"
#   # cookie_auth_body = '{"username": "user",
 "password": "pa$$word", "authenticate": "me"}'
#   ## cookie_auth_renewal not set or set to "0" will auth once and never renew the cookie
#   # cookie_auth_renewal = "5m"
#
#   ## Data format to output.
#   ## Each data format has it's own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   # data_format = "influx"
#
#   ## Use batch serialization format (default) instead of line based format.
```

```
#   ## Batch format is more efficient and should be used unless line based
#   ## format is really needed.
#   # use_batch_format = true
#
#   ## HTTP Content-Encoding for write request body, can be set to "gzip" to
#   ## compress body or "identity" to apply no encoding.
#   # content_encoding = "identity"
#
#   ## Additional HTTP headers
#   # [outputs.http.headers]
#   #   # Should be set manually to "application/json" for json data_format
#   #   Content-Type = "text/plain; charset=utf-8"
#
#
  ## Idle (keep-alive) connection timeout.
#   ## Maximum amount of time before idle connection is closed.
#   ## Zero means no limit.
#   # idle_conn_timeout = 0


# # Configuration for sending metrics to InfluxDB
# [[outputs.influxdb_v2]]
#   ## The URLs of the InfluxDB cluster nodes.
#   ##
#   ## Multiple URLs can be specified for a single cluster, only ONE of the
#   ## urls will be written to each interval.
#   ##   ex: urls = ["https://us-west-2-1.aws.cloud2.influxdata.com"]
#   urls = ["http://127.0.0.1:8086"]
#
#   ## Token for authentication.
#   token = ""
#
#   ## Organization is the name of the organization you wish to write to; must exist.
#   organization = ""
#
#   ## Destination bucket to write into.
#   bucket = ""
#
#   ## The value of this tag will be used to determine the bucket.  If this
#   ## tag is not set the 'bucket' option is used as the default.
#   # bucket_tag = ""
#
#   ## If true, the bucket tag will not be added to the metric.
#   # exclude_bucket_tag
 = false
#
#   ## Timeout for HTTP messages.
#   # timeout = "5s"
```

```
#
#   ## Additional HTTP headers
#   # http_headers = {"X-Special-Header" = "Special-Value"}
#
#   ## HTTP Proxy override, if unset values the standard proxy environment
#   ## variables are consulted to determine which proxy, if any, should be used.
#   # http_proxy = "http://corporate.proxy:3128"
#
#   ## HTTP User-Agent
#   # user_agent = "telegraf"
#
#   ## Content-Encoding for write request body, can be set to "gzip" to
#   ## compress body or "identity" to apply no encoding.
#   # content_encoding = "gzip"
#
#   ## Enable or disable uint support for writing uints influxdb 2.0.
#   # influx_uint_support = false
#
#   ## Optional TLS Config for use on HTTP connections.
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Configuration for sending metrics
 to an Instrumental project
# [[outputs.instrumental]]
#   ## Project API Token (required)
#   api_token = "API Token" # required
#   ## Prefix the metrics with a given name
#   prefix = ""
#   ## Stats output template (Graphite formatting)
#   ## see https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md#graphite
#   template = "host.tags.measurement.field"
#   ## Timeout in seconds to connect
#   timeout = "2s"
#   ## Display Communication to Instrumental
#   debug = false


# # Configuration for the Kafka server to send metrics to
# [[outputs.kafka]]
#   ## URLs of kafka brokers
#   brokers = ["localhost:9092"]
#   ## Kafka topic for producer messages
#   topic = "telegraf"
```

```
#
#   ## The value of this tag will be used as the topic.  If not set the 'topic'
#   ## option is used.
#   # topic_tag = ""
#
#   ## If true, the 'topic_tag' will be removed from to the metric.
#   # exclude_topic_tag = false
#
#   ## Optional Client id
#   # client_id = "Telegraf"
#
#
  ## Set the minimal supported Kafka version.  Setting this enables the use of new
#   ## Kafka features and APIs.  Of particular interest, lz4 compression
#   ## requires at least version 0.10.0.0.
#   ##   ex: version = "1.1.0"
#   # version = ""
#
#   ## Optional topic suffix configuration.
#   ## If the section is omitted, no suffix is used.
#   ## Following topic suffix methods are supported:
#   ##   measurement - suffix equals to separator + measurement's name
#   ##   tags        - suffix equals to separator + specified tags' values
#   ##                 interleaved with separator
#
#   ## Suffix equals to "_" + measurement name
#   # [outputs.kafka.topic_suffix]
#   #   method = "measurement"
#   #   separator = "_"
#
#   ## Suffix equals to "__" + measurement's "foo" tag value.
#   ##   If there's no such a tag, suffix equals to an empty string
#   # [outputs.kafka.topic_suffix]
#   #   method = "tags"
#   #   keys = ["foo"]
#   #   separator = "__"
#
#   ## Suffix equals to
 "_" + measurement's "foo" and "bar"
#   ##   tag values, separated by "_". If there is no such tags,
#   ##   their values treated as empty strings.
#   # [outputs.kafka.topic_suffix]
#   #   method = "tags"
#   #   keys = ["foo", "bar"]
#   #   separator = "_"
#
#   ## The routing tag specifies a tagkey on the metric whose value is used as
#   ## the message key.  The message key is used to determine which partition to
```

```
#   ## send the message to.  This tag is prefered over the routing_key option.
#   routing_tag = "host"
#
#   ## The routing key is set as the message key and used to determine which
#   ## partition to send the message to.  This value is only used when no
#   ## routing_tag is set or as a fallback when the tag specified in routing tag
#   ## is not found.
#   ##
#   ## If set to "random", a random value will be generated for each message.
#   ##
#   ## When unset, no message key is added and each message is routed to a random
#   ## partition.
#   ##
#   ##   ex: routing_key
 = "random"
#   ##       routing_key = "telegraf"
#   # routing_key = ""
#
#   ## Compression codec represents the various compression codecs recognized by
#   ## Kafka in messages.
#   ##  0 : None
#   ##  1 : Gzip
#   ##  2 : Snappy
#   ##  3 : LZ4
#   ##  4 : ZSTD
#   # compression_codec = 0
#
#   ## Idempotent Writes
#   ## If enabled, exactly one copy of each message is written.
#   # idempotent_writes = false
#
#   ##  RequiredAcks is used in Produce Requests to tell the broker how many
#   ##  replica acknowledgements it must see before responding
#   ##   0 : the producer never waits for an acknowledgement from the broker.
#   ##       This option provides the lowest latency but the weakest durability
#   ##       guarantees (some data will be lost when a server fails).
#   ##   1 : the producer gets an acknowledgement after the leader replica has
#   ##       received the data. This option provides better durability as the
#   ##       client waits until the server acknowledges
 the request as successful
#   ##       (only messages that were written to the now-dead leader but not yet
#   ##       replicated will be lost).
#   ##   -1: the producer gets an acknowledgement after all in-sync replicas have
#   ##       received the data. This option provides the best durability, we
#   ##       guarantee that no messages will be lost as long as at least one in
#   ##       sync replica remains.
#   # required_acks = -1
#
```

```
#   ## The maximum number of times to retry sending a metric before failing
#   ## until the next flush.
#   # max_retry = 3
#
#   ## The maximum permitted size of a message. Should be set equal to or
#   ## smaller than the broker's 'message.max.bytes'.
#   # max_message_bytes = 1000000
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Optional SASL
 Config
#   # sasl_username = "kafka"
#   # sasl_password = "secret"
#
#   ## Optional SASL:
#   ## one of: OAUTHBEARER, PLAIN, SCRAM-SHA-256, SCRAM-SHA-512, GSSAPI
#   ## (defaults to PLAIN)
#   # sasl_mechanism = ""
#
#   ## used if sasl_mechanism is GSSAPI (experimental)
#   # sasl_gssapi_service_name = ""
#   # ## One of: KRB5_USER_AUTH and KRB5_KEYTAB_AUTH
#   # sasl_gssapi_auth_type = "KRB5_USER_AUTH"
#   # sasl_gssapi_kerberos_config_path = "/"
#   # sasl_gssapi_realm = "realm"
#   # sasl_gssapi_key_tab_path = ""
#   # sasl_gssapi_disable_pafxfast = false
#
#   ## used if sasl_mechanism is OAUTHBEARER (experimental)
#   # sasl_access_token = ""
#
#   ## SASL protocol version.  When connecting to Azure EventHub set to 0.
#   # sasl_version = 1
#
#   # Disable Kafka metadata full fetch
#   # metadata_full = false
#
#   ## Data format to output.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#
```

```
  # data_format = "influx"


# # Configuration for the AWS Kinesis output.
# [[outputs.kinesis]]
#   ## Amazon REGION of kinesis endpoint.
#   region = "ap-southeast-2"
#
#   ## Amazon Credentials
#   ## Credentials are loaded in the following order
#   ## 1) Web identity provider credentials via STS if role_arn and web_identity_token_file are specified
#   ## 2) Assumed credentials via STS if role_arn is specified
#   ## 3) explicit credentials from 'access_key' and 'secret_key'
#   ## 4) shared profile from 'profile'
#   ## 5) environment variables
#   ## 6) shared credentials file
#   ## 7) EC2 Instance Profile
#   #access_key = ""
#   #secret_key = ""
#   #token = ""
#   #role_arn = ""
#   #web_identity_token_file = ""
#   #role_session_name = ""
#   #profile = ""
#   #shared_credential_file = ""
#
#   ## Endpoint to make request against, the correct endpoint is automatically
#   ## determined and this option should only be
 set if you wish to override the
#   ## default.
#   ##   ex: endpoint_url = "http://localhost:8000"
#   # endpoint_url = ""
#
#   ## Kinesis StreamName must exist prior to starting telegraf.
#   streamname = "StreamName"
#   ## DEPRECATED: PartitionKey as used for sharding data.
#   partitionkey = "PartitionKey"
#   ## DEPRECATED: If set the partitionKey will be a random UUID on every put.
#   ## This allows for scaling across multiple shards in a stream.
#   ## This will cause issues with ordering.
#   use_random_partitionkey = false
#   ## The partition key can be calculated using one of several methods:
#   ##
#   ## Use a static value for all writes:
#   #  [outputs.kinesis.partition]
#   #    method = "static"
#   #    key = "howdy"
#   #
```

```
#   ## Use a random partition key on each write:
#   #  [outputs.kinesis.partition]
#   #    method = "random"
#   #
#   ## Use the measurement name as the partition key:
#   #  [outputs.kinesis.partition]
#   #    method = "measurement"
#   #
#
  ## Use the value of a tag for all writes, if the tag is not set the empty
#   ## default option will be used. When no default, defaults to "telegraf"
#   #  [outputs.kinesis.partition]
#   #    method = "tag"
#   #    key = "host"
#   #    default = "mykey"
#
#
#   ## Data format to output.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   data_format = "influx"
#
#   ## debug will show upstream aws messages.
#   debug = false


# # Configuration for Librato API to send metrics to.
# [[outputs.librato]]
#   ## Librato API Docs
#   ## http://dev.librato.com/v1/metrics-authentication
#   ## Librato API user
#   api_user = "telegraf@influxdb.com" # required.
#   ## Librato API token
#   api_token = "my-secret-token" # required.
#   ## Debug
#   # debug = false
#   ## Connection timeout.
#   # timeout = "5s"
#   ## Output source Template (same
 as graphite buckets)
#   ## see https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md#graphite
#   ## This template is used in librato's source (not metric's name)
#   template = "host"
#


# # Send aggregate metrics to Logz.io
```

```
# [[outputs.logzio]]
#   ## Connection timeout, defaults to "5s" if not set.
#   timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
#   ## Logz.io account token
#   token = "your logz.io token" # required
#
#   ## Use your listener URL for your Logz.io account region.
#   # url = "https://listener.logz.io:8071"


# # Send logs to Loki
# [[outputs.loki]]
#   ## The domain of Loki
#   domain = "https://loki.domain.tld"
#
#   ## Endpoint to write api
#   # endpoint = "/loki/api/v1/push"
#
#   ## Connection timeout, defaults to "5s" if not set.
#   # timeout = "5s"
#
#   ## Basic auth credential
#   # username = "loki"
#   # password
 = "pass"
#
#   ## Additional HTTP headers
#   # http_headers = {"X-Scope-OrgID" = "1"}
#
#   ## If the request must be gzip encoded
#   # gzip_request = false
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"


# # Sends metrics to MongoDB
# [[outputs.mongodb]]
#   # connection string examples for mongodb
#   dsn = "mongodb://localhost:27017"
```

```
#   # dsn = "mongodb://mongod1:27017,mongod2:27017,mongod3:27017/admin&replicaSet=myReplSet&w=1"
#
#   # overrides serverSelectionTimeoutMS in dsn if set
#   # timeout = "30s"
#
#   # default authentication, optional
#   # authentication = "NONE"
#
#   # for SCRAM-SHA-256 authentication
#   # authentication = "SCRAM"
#   # username = "root"
#   # password = "***"
#
#   # for x509 certificate authentication
#   # authentication = "X509"
#   # tls_ca = "ca.pem"
#   # tls_key = "client.pem"
#   # # tls_key_pwd = "changeme" # required for encrypted
 tls_key
#   # insecure_skip_verify = false
#
#   # database to store measurements and time series collections
#   # database = "telegraf"
#
#   # granularity can be seconds, minutes, or hours.
#   # configuring this value will be based on your input collection frequency.
#   # see https://docs.mongodb.com/manual/core/timeseries-collections/#create-a-time-series-collection
#   # granularity = "seconds"
#
#   # optionally set a TTL to automatically expire documents from the measurement collections.
#   # ttl = "360h"


# # Configuration for MQTT server to send metrics to
# [[outputs.mqtt]]
#   ## MQTT Brokers
#   ## The list of brokers should only include the hostname or IP address and the
#   ## port to the broker. This should follow the format '{host}:{port}'. For
#   ## example, "localhost:1883" or "127.0.0.1:8883".
#   servers = ["localhost:1883"]
#
#   ## MQTT Topic for Producer Messages
#   ## MQTT outputs send metrics to this topic format:
#   ## <topic_prefix>/<hostname>/<pluginname>/
 (e.g. prefix/web01.example.com/mem)
#   topic_prefix = "telegraf"
#
#   ## QoS policy for messages
```

```
#   ## The mqtt QoS policy for sending messages.
#   ## See https://www.ibm.com/support/knowledgecenter/en/SSFKSJ_9.0.0/com.ibm.mq.dev.doc/q029090_.htm
#   ##   0 = at most once
#   ##   1 = at least once
#   ##   2 = exactly once
#   # qos = 2
#
#   ## Keep Alive
#   ## Defines the maximum length of time that the broker and client may not
#   ## communicate. Defaults to 0 which turns the feature off.
#   ##
#   ## For version v2.0.12 and later mosquitto there is a bug
#   ## (see https://github.com/eclipse/mosquitto/issues/2117), which requires
#   ## this to be non-zero. As a reference eclipse/paho.mqtt.golang defaults to 30.
#   # keep_alive = 0
#
#   ## username and password to connect MQTT server.
#   # username = "telegraf"
#   # password = "metricsmetricsmetricsmetrics"
#
#   ## client ID
#   ## The unique client id to connect MQTT server. If this parameter is not set
#
 ## then a random ID is generated.
#   # client_id = ""
#
#   ## Timeout for write operations. default: 5s
#   # timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## When true, metrics will be sent in one MQTT message per flush. Otherwise,
#   ## metrics are written one metric per MQTT message.
#   # batch = false
#
#   ## When true, metric will have RETAIN flag set, making broker cache entries until someone
#   ## actually reads it
#   # retain = false
#
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
```

```
#   data_format = "influx"


# # Send telegraf measurements to NATS
# [[outputs.nats]]
#   ## URLs of NATS servers
#   servers = ["nats://localhost:4222"]
#
#
  ## Optional client name
#   # name = ""
#
#   ## Optional credentials
#   # username = ""
#   # password = ""
#
#   ## Optional NATS 2.0 and NATS NGS compatible user credentials
#   # credentials = "/etc/telegraf/nats.creds"
#
#   ## NATS subject for producer messages
#   subject = "telegraf"
#
#   ## Use Transport Layer Security
#   # secure = false
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Data format to output.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   data_format = "influx"


# # Send metrics to New Relic metrics endpoint
# [[outputs.newrelic]]
#   ## New Relic Insights API key
#   insights_key = "insights api key"
#
#
  ## Prefix to add to add to metric name for easy identification.
#   # metric_prefix = ""
#
```

```
#   ## Timeout for writes to the New Relic API.
#   # timeout = "15s"
#
#   ## HTTP Proxy override. If unset use values from the standard
#   ## proxy environment variables to determine proxy, if any.
#   # http_proxy = "http://corporate.proxy:3128"
#
#   ## Metric URL override to enable geographic location endpoints.
#   # If not set use values from the standard
#   # metric_url = "https://metric-api.newrelic.com/metric/v1"


# # Send telegraf measurements to NSQD
# [[outputs.nsq]]
#   ## Location of nsqd instance listening on TCP
#   server = "localhost:4150"
#   ## NSQ topic for producer messages
#   topic = "telegraf"
#
#   ## Data format to output.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   data_format = "influx"


# # Send OpenTelemetry
 metrics over gRPC
# [[outputs.opentelemetry]]
#   ## Override the default (localhost:4317) OpenTelemetry gRPC service
#   ## address:port
#   # service_address = "localhost:4317"
#
#   ## Override the default (5s) request timeout
#   # timeout = "5s"
#
#   ## Optional TLS Config.
#   ##
#   ## Root certificates for verifying server certificates encoded in PEM format.
#   # tls_ca = "/etc/telegraf/ca.pem"
#   ## The public and private keypairs for the client encoded in PEM format.
#   ## May contain intermediate certificates.
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS, but skip TLS chain and host verification.
#   # insecure_skip_verify = false
#   ## Send the specified TLS server name via SNI.
#   # tls_server_name = "foo.example.com"
```

```
#
#   ## Override the default (gzip) compression used to send data.
#   ## Supports: "gzip", "none"
#   # compression = "gzip"
#
#   ## Additional OpenTelemetry resource attributes
#   # [outputs.opentelemetry.attributes]
#
  # "service.name" = "demo"
#
#   ## Additional gRPC request metadata
#   # [outputs.opentelemetry.headers]
#   # key1 = "value1"


# # Configuration for OpenTSDB server to send metrics to
# [[outputs.opentsdb]]
#   ## prefix for metrics keys
#   prefix = "my.specific.prefix."
#
#   ## DNS name of the OpenTSDB server
#   ## Using "opentsdb.example.com" or "tcp://opentsdb.example.com" will use the
#   ## telnet API. "http://opentsdb.example.com" will use the Http API.
#   host = "opentsdb.example.com"
#
#   ## Port of the OpenTSDB server
#   port = 4242
#
#   ## Number of data points to send to OpenTSDB in Http requests.
#   ## Not used with telnet API.
#   http_batch_size = 50
#
#   ## URI Path for Http requests to OpenTSDB.
#   ## Used in cases where OpenTSDB is located behind a reverse proxy.
#   http_path = "/api/put"
#
#   ## Debug true - Prints OpenTSDB communication
#   debug = false
#
#   ## Separator separates measurement name from field
#   separator
 = "_"


# # Configuration for the Prometheus client to spawn
# [[outputs.prometheus_client]]
#   ## Address to listen on
#   listen = ":9273"
```

```
#
#   ## Metric version controls the mapping from Telegraf metrics into
#   ## Prometheus format.  When using the prometheus input, use the same value in
#   ## both plugins to ensure metrics are round-tripped without modification.
#   ##
#   ##   example: metric_version = 1;
#   ##            metric_version = 2; recommended version
#   # metric_version = 1
#
#   ## Use HTTP Basic Authentication.
#   # basic_username = "Foo"
#   # basic_password = "Bar"
#
#   ## If set, the IP Ranges which are allowed to access metrics.
#   ##   ex: ip_range = ["192.168.0.0/24", "192.168.1.0/30"]
#   # ip_range = []
#
#   ## Path to publish the metrics on.
#   # path = "/metrics"
#
#   ## Expiration interval for each metric. 0 == no expiration
#   # expiration_interval = "60s"
#
#   ## Collectors to enable, valid entries are "gocollector" and "process".
#   ##
 If unset, both are enabled.
#   # collectors_exclude = ["gocollector", "process"]
#
#   ## Send string metrics as Prometheus labels.
#   ## Unless set to false all string metrics will be sent as labels.
#   # string_as_label = true
#
#   ## If set, enable TLS with the given certificate.
#   # tls_cert = "/etc/ssl/telegraf.crt"
#   # tls_key = "/etc/ssl/telegraf.key"
#
#   ## Set one or more allowed client CA certificate file names to
#   ## enable mutually authenticated TLS connections
#   # tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#
#   ## Export metric collection time.
#   # export_timestamp = false


# # Configuration for the Riemann server to send metrics to
# [[outputs.riemann]]
#   ## The full TCP or UDP URL of the Riemann server
#   url = "tcp://localhost:5555"
```

```
#
#   ## Riemann event TTL, floating-point time in seconds.
#   ## Defines how long that an event is considered valid for in Riemann
#   # ttl = 30.0
#
#   ## Separator to use between measurement and field name
 in Riemann service name
#   ## This does not have any effect if 'measurement_as_attribute' is set to 'true'
#   separator = "/"
#
#   ## Set measurement name as Riemann attribute 'measurement', instead of prepending it to the Riemann service
name
#   # measurement_as_attribute = false
#
#   ## Send string metrics as Riemann event states.
#   ## Unless enabled all string metrics will be ignored
#   # string_as_state = false
#
#   ## A list of tag keys whose values get sent as Riemann tags.
#   ## If empty, all Telegraf tag values will be sent as tags
#   # tag_keys = ["telegraf","custom_tag"]
#
#   ## Additional Riemann tags to send.
#   # tags = ["telegraf-output"]
#
#   ## Description for Riemann event
#   # description_text = "metrics collected from telegraf"
#
#   ## Riemann client write timeout, defaults to "5s" if not set.
#   # timeout = "5s"


# # Configuration for the Riemann server to send metrics to
# [[outputs.riemann_legacy]]
#   ## DEPRECATED: The 'riemann_legacy' plugin
 is deprecated in version 1.3.0, use 'outputs.riemann' instead (see https://github.com/influxdata/telegraf/issues/1878).
#   ## URL of server
#   url = "localhost:5555"
#   ## transport protocol to use either tcp or udp
#   transport = "tcp"
#   ## separator to use between input name and field name in Riemann service name
#   separator = " "


# # Send aggregate metrics to Sensu Monitor
# [[outputs.sensu]]
#   ## BACKEND API URL is the Sensu Backend API root URL to send metrics to
#   ## (protocol, host, and port only). The output plugin will automatically
```

```
#   ## append the corresponding backend API path
#   ## /api/core/v2/namespaces/:entity_namespace/events/:entity_name/:check_name).
#   ##
#   ## Backend Events API reference:
#   ## https://docs.sensu.io/sensu-go/latest/api/events/
#   ##
#   ## AGENT API URL is the Sensu Agent API root URL to send metrics to
#   ## (protocol, host, and port only). The output plugin will automatically
#   ## append the correspeonding agent API path
 (/events).
#   ##
#   ## Agent API Events API reference:
#   ## https://docs.sensu.io/sensu-go/latest/api/events/
#   ##
#   ## NOTE: if backend_api_url and agent_api_url and api_key are set, the output
#   ## plugin will use backend_api_url. If backend_api_url and agent_api_url are
#   ## not provided, the output plugin will default to use an agent_api_url of
#   ## http://127.0.0.1:3031
#   ##
#   # backend_api_url = "http://127.0.0.1:8080"
#   # agent_api_url = "http://127.0.0.1:3031"
#
#   ## API KEY is the Sensu Backend API token
#   ## Generate a new API token via:
#   ##
#   ## $ sensuctl cluster-role create telegraf --verb create --resource events,entities
#   ## $ sensuctl cluster-role-binding create telegraf --cluster-role telegraf --group telegraf
#   ## $ sensuctl user create telegraf --group telegraf --password REDACTED
#   ## $ sensuctl api-key grant telegraf
#   ##
#   ## For more information on Sensu RBAC profiles & API tokens, please visit:
#   ## - https://docs.sensu.io/sensu-go/latest/reference/rbac/
#
  ## - https://docs.sensu.io/sensu-go/latest/reference/apikeys/
#   ##
#   # api_key = "${SENSU_API_KEY}"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Timeout for HTTP message
#   # timeout = "5s"
#
#   ## HTTP Content-Encoding for write request body, can be set to "gzip" to
```

```
#   ## compress body or "identity" to apply no encoding.
#   # content_encoding = "identity"
#
#   ## Sensu Event details
#   ##
#   ## Below are the event details to be sent to Sensu.  The main portions of the
#   ## event are the check, entity, and metrics specifications. For more information
#   ## on Sensu events and its components, please visit:
#   ## - Events - https://docs.sensu.io/sensu-go/latest/reference/events
#   ## - Checks -  https://docs.sensu.io/sensu-go/latest/reference/checks
#
  ## - Entities - https://docs.sensu.io/sensu-go/latest/reference/entities
#   ## - Metrics - https://docs.sensu.io/sensu-go/latest/reference/events#metrics
#   ##
#   ## Check specification
#   ## The check name is the name to give the Sensu check associated with the event
#   ## created. This maps to check.metatadata.name in the event.
#   [outputs.sensu.check]
#   name = "telegraf"
#
#   ## Entity specification
#   ## Configure the entity name and namespace, if necessary. This will be part of
#   ## the entity.metadata in the event.
#   ##
#   ## NOTE: if the output plugin is configured to send events to a
#   ## backend_api_url and entity_name is not set, the value returned by
#   ## os.Hostname() will be used; if the output plugin is configured to send
#   ## events to an agent_api_url, entity_name and entity_namespace are not used.
#   # [outputs.sensu.entity]
#   #   name = "server-01"
#   #   namespace = "default"
#
#   ## Metrics specification
#   ## Configure the
 tags for the metrics that are sent as part of the Sensu event
#   # [outputs.sensu.tags]
#   #   source = "telegraf"
#
#   ## Configure the handler(s) for processing the provided metrics
#   # [outputs.sensu.metrics]
#   #   handlers = ["influxdb","elasticsearch"]


# # Send metrics and events to SignalFx
# [[outputs.signalfx]]
#     ## SignalFx Org Access Token
#     access_token = "my-secret-token"
#
```

```
#    ## The SignalFx realm that your organization resides in
#    signalfx_realm = "us9"  # Required if ingest_url is not set
#
#    ## You can optionally provide a custom ingest url instead of the
#    ## signalfx_realm option above if you are using a gateway or proxy
#    ## instance.  This option takes precident over signalfx_realm.
#    ingest_url = "https://my-custom-ingest/"
#
#    ## Event typed metrics are omitted by default,
#    ## If you require an event typed metric you must specify the
#    ## metric name in the following list.
#    included_event_names = ["plugin.metric_name"]


#
 # Generic socket writer capable of handling multiple socket types.
# [[outputs.socket_writer]]
#   ## URL to connect to
#   # address = "tcp://127.0.0.1:8094"
#   # address = "tcp://example.com:http"
#   # address = "tcp4://127.0.0.1:8094"
#   # address = "tcp6://127.0.0.1:8094"
#   # address = "tcp6://[2001:db8::1]:8094"
#   # address = "udp://127.0.0.1:8094"
#   # address = "udp4://127.0.0.1:8094"
#   # address = "udp6://127.0.0.1:8094"
#   # address = "unix:///tmp/telegraf.sock"
#   # address = "unixgram:///tmp/telegraf.sock"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Period between keep alive probes.
#   ## Only applies to TCP sockets.
#   ## 0 disables keep alive probes.
#   ## Defaults to the OS configuration.
#   # keep_alive_period = "5m"
#
#   ## Content encoding
 for packet-based connections (i.e. UDP, unixgram).
#   ## Can be set to "gzip" or to "identity" to apply no encoding.
#   ##
#   # content_encoding = "identity"
#
```

```
#   ## Data format to generate.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   # data_format = "influx"


# # Send metrics to SQL Database
# [[outputs.sql]]
#   ## Database driver
#   ## Valid options: mssql (Microsoft SQL Server), mysql (MySQL), pgx (Postgres),
#   ##  sqlite (SQLite3), snowflake (snowflake.com)
#   # driver = ""
#
#   ## Data source name
#   ## The format of the data source name is different for each database driver.
#   ## See the plugin readme for details.
#   # data_source_name = ""
#
#   ## Timestamp column name
#   # timestamp_column = "timestamp"
#
#   ## Table creation template
#   ## Available template variables:
#   ##  {TABLE} - table name as a quoted
 identifier
#   ##  {TABLELITERAL} - table name as a quoted string literal
#   ##  {COLUMNS} - column definitions (list of quoted identifiers and types)
#   # table_template = "CREATE TABLE {TABLE}({COLUMNS})"
#
#   ## Table existence check template
#   ## Available template variables:
#   ##  {TABLE} - tablename as a quoted identifier
#   # table_exists_template = "SELECT 1 FROM {TABLE} LIMIT 1"
#
#   ## Initialization SQL
#   # init_sql = ""
#
#   ## Metric type to SQL type conversion
#   ## The values on the left are the data types Telegraf has and the values on
#   ## the right are the data types Telegraf will use when sending to a database.
#   ##
#   ## The database values used must be data types the destination database
#   ## understands. It is up to the user to ensure that the selected data type is
#   ## available in the database they are using. Refer to your database
#   ## documentation for what data types are available and supported.
#   #[outputs.sql.convert]
#   #  integer
```

```
          = "INT"
#   #  real             = "DOUBLE"
#   #  text             = "TEXT"
#   #  timestamp          = "TIMESTAMP"
#   #  defaultvalue       = "TEXT"
#   #  unsigned           = "UNSIGNED"


# # Configuration for Google Cloud Stackdriver to send metrics to
# [[outputs.stackdriver]]
#   ## GCP Project
#   project = "erudite-bloom-151019"
#
#   ## The namespace for the metric descriptor
#   namespace = "telegraf"
#
#   ## Custom resource type
#   # resource_type = "generic_node"
#
#   ## Additional resource labels
#   # [outputs.stackdriver.resource_labels]
#   #   node_id = "$HOSTNAME"
#   #   namespace = "myapp"
#   #   location = "eu-north0"


# # A plugin that can transmit metrics to Sumo Logic HTTP Source
# [[outputs.sumologic]]
#   ## Unique URL generated for your HTTP Metrics Source.
#   ## This is the address to send metrics to.
#   # url = "https://events.sumologic.net/receiver/v1/http/<UniqueHTTPCollectorCode>"
#
#   ## Data format to be used
 for sending metrics.
#   ## This will set the "Content-Type" header accordingly.
#   ## Currently supported formats:
#   ## * graphite - for Content-Type of application/vnd.sumologic.graphite
#   ## * carbon2 - for Content-Type of application/vnd.sumologic.carbon2
#   ## * prometheus - for Content-Type of application/vnd.sumologic.prometheus
#   ##
#   ## More information can be found at:
#   ## https://help.sumologic.com/03Send-Data/Sources/02Sources-for-Hosted-Collectors/HTTP-Source/Upload-
Metrics-to-an-HTTP-Source#content-type-headers-for-metrics
#   ##
#   ## NOTE:
#   ## When unset, telegraf will by default use the influx serializer which is currently unsupported
#   ## in HTTP Source.
#   data_format = "carbon2"
```

```
#
#   ## Timeout used for HTTP request
#   # timeout = "5s"
#
#   ## Max HTTP request body size in bytes before compression (if applied).
#   ## By default 1MB is recommended.
#   ## NOTE:
#   ## Bear in mind that in some serializer a metric even though serialized to multiple
#
  ## lines cannot be split any further so setting this very low might not work
#   ## as expected.
#   # max_request_body_size = 1000000
#
#   ## Additional, Sumo specific options.
#   ## Full list can be found here:
#   ## https://help.sumologic.com/03Send-Data/Sources/02Sources-for-Hosted-Collectors/HTTP-Source/Upload-
Metrics-to-an-HTTP-Source#supported-http-headers
#
#   ## Desired source name.
#   ## Useful if you want to override the source name configured for the source.
#   # source_name = ""
#
#   ## Desired host name.
#   ## Useful if you want to override the source host configured for the source.
#   # source_host = ""
#
#   ## Desired source category.
#   ## Useful if you want to override the source category configured for the source.
#   # source_category = ""
#
#   ## Comma-separated key=value list of dimensions to apply to every metric.
#   ## Custom dimensions will allow you to query your metrics at a more granular level.
#   # dimensions = ""


# # Configuration
 for Syslog server to send metrics to
# [[outputs.syslog]]
#   ## URL to connect to
#   ## ex: address = "tcp://127.0.0.1:8094"
#   ## ex: address = "tcp4://127.0.0.1:8094"
#   ## ex: address = "tcp6://127.0.0.1:8094"
#   ## ex: address = "tcp6://[2001:db8::1]:8094"
#   ## ex: address = "udp://127.0.0.1:8094"
#   ## ex: address = "udp4://127.0.0.1:8094"
#   ## ex: address = "udp6://127.0.0.1:8094"
#   address = "tcp://127.0.0.1:8094"
#
```

```
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Period between keep alive probes.
#   ## Only applies to TCP sockets.
#   ## 0 disables keep alive probes.
#   ## Defaults to the OS configuration.
#   # keep_alive_period = "5m"
#
#   ## The framing technique with which it is expected that messages are
#   ## transported (default = "octet-counting").  Whether the messages
 come
#   ## using the octect-counting (RFC5425#section-4.3.1, RFC6587#section-3.4.1),
#   ## or the non-transparent framing technique (RFC6587#section-3.4.2).  Must
#   ## be one of "octet-counting", "non-transparent".
#   # framing = "octet-counting"
#
#   ## The trailer to be expected in case of non-transparent framing (default = "LF").
#   ## Must be one of "LF", or "NUL".
#   # trailer = "LF"
#
#   ## SD-PARAMs settings
#   ## Syslog messages can contain key/value pairs within zero or more
#   ## structured data sections.  For each unrecognized metric tag/field a
#   ## SD-PARAMS is created.
#   ##
#   ## Example:
#   ##   [[outputs.syslog]]
#   ##     sdparam_separator = "_"
#   ##     default_sdid = "default@32473"
#   ##     sdids = ["foo@123", "bar@456"]
#   ##
#   ##   input => xyzzy,x=y foo@123_value=42,bar@456_value2=84,something_else=1
#   ##   output (structured data only) => [foo@123 value=42][bar@456 value2=84][default@32473
something_else=1 x=y]
#
#   ## SD-PARAMs
 separator between the sdid and tag/field key (default = "_")
#   # sdparam_separator = "_"
#
#   ## Default sdid used for tags/fields that don't contain a prefix defined in
#   ## the explicit sdids setting below If no default is specified, no SD-PARAMs
#   ## will be used for unrecognized field.
#   # default_sdid = "default@32473"
```

```
#
#   ## List of explicit prefixes to extract from tag/field keys and use as the
#   ## SDID, if they match (see above example for more details):
#   # sdids = ["foo@123", "bar@456"]
#
#   ## Default severity value. Severity and Facility are used to calculate the
#   ## message PRI value (RFC5424#section-6.2.1).  Used when no metric field
#   ## with key "severity_code" is defined.  If unset, 5 (notice) is the default
#   # default_severity_code = 5
#
#   ## Default facility value. Facility and Severity are used to calculate the
#   ## message PRI value (RFC5424#section-6.2.1).  Used when no metric field with
#   ## key "facility_code" is defined.  If unset,
 1 (user-level) is the default
#   # default_facility_code = 1
#
#   ## Default APP-NAME value (RFC5424#section-6.2.5)
#   ## Used when no metric tag with key "appname" is defined.
#   ## If unset, "Telegraf" is the default
#   # default_appname = "Telegraf"


# # Configuration for Amazon Timestream output.
# [[outputs.timestream]]
#   ## Amazon Region
#   region = "us-east-1"
#
#   ## Amazon Credentials
#   ## Credentials are loaded in the following order:
#   ## 1) Web identity provider credentials via STS if role_arn and web_identity_token_file are specified
#   ## 2) Assumed credentials via STS if role_arn is specified
#   ## 3) explicit credentials from 'access_key' and 'secret_key'
#   ## 4) shared profile from 'profile'
#   ## 5) environment variables
#   ## 6) shared credentials file
#   ## 7) EC2 Instance Profile
#   #access_key = ""
#   #secret_key = ""
#   #token = ""
#   #role_arn = ""
#   #web_identity_token_file = ""
#   #role_session_name = ""
#   #profile = ""
#   #shared_credential_file
 = ""
#
#   ## Endpoint to make request against, the correct endpoint is automatically
#   ## determined and this option should only be set if you wish to override the
```

```
#   ## default.
#   ##   ex: endpoint_url = "http://localhost:8000"
#   # endpoint_url = ""
#
#   ## Timestream database where the metrics will be inserted.
#   ## The database must exist prior to starting Telegraf.
#   database_name = "yourDatabaseNameHere"
#
#   ## Specifies if the plugin should describe the Timestream database upon starting
#   ## to validate if it has access necessary permissions, connection, etc., as a safety check.
#   ## If the describe operation fails, the plugin will not start
#   ## and therefore the Telegraf agent will not start.
#   describe_database_on_start = false
#
#   ## The mapping mode specifies how Telegraf records are represented in Timestream.
#   ## Valid values are: single-table, multi-table.
#   ## For example, consider the following data in line protocol format:
#
  ## weather,location=us-midwest,season=summer temperature=82,humidity=71 1465839830100400200
#   ## airquality,location=us-west no2=5,pm25=16 1465839830100400200
#   ## where weather and airquality are the measurement names, location and season are tags,
#   ## and temperature, humidity, no2, pm25 are fields.
#   ## In multi-table mode:
#   ##  - first line will be ingested to table named weather
#   ##  - second line will be ingested to table named airquality
#   ##  - the tags will be represented as dimensions
#   ##  - first table (weather) will have two records:
#   ##      one with measurement name equals to temperature,
#   ##      another with measurement name equals to humidity
#   ##  - second table (airquality) will have two records:
#   ##      one with measurement name equals to no2,
#   ##      another with measurement name equals to pm25
#   ##  - the Timestream tables from the example will look like this:
#   ##      TABLE "weather":
#   ##        time | location |
 season | measure_name | measure_value::bigint
#   ##        2016-06-13 17:43:50 | us-midwest | summer | temperature | 82
#   ##        2016-06-13 17:43:50 | us-midwest | summer | humidity | 71
#   ##      TABLE "airquality":
#   ##        time | location | measure_name | measure_value::bigint
#   ##        2016-06-13 17:43:50 | us-west | no2 | 5
#   ##        2016-06-13 17:43:50 | us-west | pm25 | 16
#   ## In single-table mode:
#   ##  - the data will be ingested to a single table, which name will be valueOf(single_table_name)
#   ##  - measurement name will stored in dimension named
valueOf(single_table_dimension_name_for_telegraf_measurement_name)
#   ##  - location and season will be represented as dimensions
#   ##  - temperature, humidity, no2, pm25 will be represented as measurement name
```

```
#   ##  - the Timestream table from the example will look like this:
#   ##      Assuming:
#   ##        - single_table_name = "my_readings"
#   ##        - single_table_dimension_name_for_telegraf_measurement_name
 = "namespace"
#   ##      TABLE "my_readings":
#   ##        time | location | season | namespace | measure_name | measure_value::bigint
#   ##        2016-06-13 17:43:50 | us-midwest | summer | weather | temperature | 82
#   ##        2016-06-13 17:43:50 | us-midwest | summer | weather | humidity | 71
#   ##        2016-06-13 17:43:50 | us-west | NULL | airquality | no2 | 5
#   ##        2016-06-13 17:43:50 | us-west | NULL | airquality | pm25 | 16
#   ## In most cases, using multi-table mapping mode is recommended.
#   ## However, you can consider using single-table in situations when you have thousands of measurement names.
#   mapping_mode = "multi-table"
#
#   ## Only valid and required for mapping_mode = "single-table"
#   ## Specifies the Timestream table where the metrics will be uploaded.
#   # single_table_name = "yourTableNameHere"
#
#   ## Only valid and required for mapping_mode = "single-table"
#   ## Describes what will be the Timestream dimension name
 for the Telegraf
#   ## measurement name.
#   # single_table_dimension_name_for_telegraf_measurement_name = "namespace"
#
#   ## Specifies if the plugin should create the table, if the table do not exist.
#   ## The plugin writes the data without prior checking if the table exists.
#   ## When the table does not exist, the error returned from Timestream will cause
#   ## the plugin to create the table, if this parameter is set to true.
#   create_table_if_not_exists = true
#
#   ## Only valid and required if create_table_if_not_exists = true
#   ## Specifies the Timestream table magnetic store retention period in days.
#   ## Check Timestream documentation for more details.
#   create_table_magnetic_store_retention_period_in_days = 365
#
#   ## Only valid and required if create_table_if_not_exists = true
#   ## Specifies the Timestream table memory store retention period in hours.
#   ## Check Timestream documentation for more details.
#   create_table_memory_store_retention_period_in_hours
 = 24
#
#   ## Only valid and optional if create_table_if_not_exists = true
#   ## Specifies the Timestream table tags.
#   ## Check Timestream documentation for more details
#   # create_table_tags = { "foo" = "bar", "environment" = "dev"}
#
#   ## Specify the maximum number of parallel go routines to ingest/write data
```

```
#   ## If not specified, defaulted to 1 go routines
#   max_write_go_routines = 25


# # Write metrics to Warp 10
# [[outputs.warp10]]
#   # Prefix to add to the measurement.
#   prefix = "telegraf."
#
#   # URL of the Warp 10 server
#   warp_url = "http://localhost:8080"
#
#   # Write token to access your app on warp 10
#   token = "Token"
#
#   # Warp 10 query timeout
#   # timeout = "15s"
#
#   ## Print Warp 10 error body
#   # print_error_body = false
#
#   ## Max string error size
#   # max_string_error_size = 511
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
  ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Configuration for Wavefront server to send metrics to
# [[outputs.wavefront]]
#   ## Url for Wavefront Direct Ingestion or using HTTP with Wavefront Proxy
#   ## If using Wavefront Proxy, also specify port. example: http://proxyserver:2878
#   url = "https://metrics.wavefront.com"
#
#   ## Authentication Token for Wavefront. Only required if using Direct Ingestion
#   #token = "DUMMY_TOKEN"
#
#   ## DNS name of the wavefront proxy server. Do not use if url is specified
#   #host = "wavefront.example.com"
#
#   ## Port that the Wavefront proxy server listens on. Do not use if url is specified
#   #port = 2878
#
```

```
#   ## prefix for metrics keys
#   #prefix = "my.specific.prefix."
#
#   ## whether to use "value" for name of simple fields. default is false
#   #simple_fields = false
#
#   ## character to use between metric and field name.  default is . (dot)
#   #metric_separator = "."
#
#   ## Convert
 metric name paths to use metricSeparator character
#   ## When true will convert all _ (underscore) characters in final metric name. default is true
#   #convert_paths = true
#
#   ## Use Strict rules to sanitize metric and tag names from invalid characters
#   ## When enabled forward slash (/) and comma (,) will be accepted
#   #use_strict = false
#
#   ## Use Regex to sanitize metric and tag names from invalid characters
#   ## Regex is more thorough, but significantly slower. default is false
#   #use_regex = false
#
#   ## point tags to use as the source name for Wavefront (if none found, host will be used)
#   #source_override = ["hostname", "address", "agent_host", "node_host"]
#
#   ## whether to convert boolean values to numeric values, with false -> 0.0 and true -> 1.0. default is true
#   #convert_bool = true
#
#   ## Truncate metric tags to a total of 254 characters for the tag name value. Wavefront will reject any
#   ## data point exceeding this limit if not truncated.
 Defaults to 'false' to provide backwards compatibility.
#   #truncate_tags = false
#
#   ## Flush the internal buffers after each batch. This effectively bypasses the background sending of metrics
#   ## normally done by the Wavefront SDK. This can be used if you are experiencing buffer overruns. The sending
#   ## of metrics will block for a longer time, but this will be handled gracefully by the internal buffering in
#   ## Telegraf.
#   #immediate_flush = true
#
#   ## Define a mapping, namespaced by metric prefix, from string values to numeric values
#   ##   deprecated in 1.9; use the enum processor plugin
#   #[[outputs.wavefront.string_to_number.elasticsearch]]
#   #  green = 1.0
#   #  yellow = 0.5
#   #  red = 0.0


# # Generic WebSocket output writer.
```

```
# [[outputs.websocket]]
#   ## URL is the address to send metrics to. Make sure ws or wss scheme is used.
#   url = "ws://127.0.0.1:8080/telegraf"
#
#   ## Timeouts (make sure read_timeout is larger than server ping interval
 or set to zero).
#   # connect_timeout = "30s"
#   # write_timeout = "30s"
#   # read_timeout = "30s"
#
#   ## Optionally turn on using text data frames (binary by default).
#   # use_text_frames = false
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Data format to output.
#   ## Each data format has it's own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_OUTPUT.md
#   # data_format = "influx"
#
#   ## Additional HTTP Upgrade headers
#   # [outputs.websocket.headers]
#   #   Authorization = "Bearer <TOKEN>"


# # Send aggregated metrics to Yandex.Cloud Monitoring
# [[outputs.yandex_cloud_monitoring]]
#   ## Timeout for HTTP writes.
#   # timeout = "20s"
#
#   ## Yandex.Cloud monitoring API endpoint.
 Normally should not be changed
#   # endpoint_url = "https://monitoring.api.cloud.yandex.net/monitoring/v2/data/write"
#
#   ## All user metrics should be sent with "custom" service specified. Normally should not be changed
#   # service = "custom"


###############################################################################
#                            PROCESSOR PLUGINS                                #
###############################################################################
```

```
# # Attach AWS EC2 metadata to metrics
# [[processors.aws_ec2]]
#   ## Instance identity document tags to attach to metrics.
#   ## For more information see:
#   ## https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/instance-identity-documents.html
#   ##
#   ## Available tags:
#   ## * accountId
#   ## * architecture
#   ## * availabilityZone
#   ## * billingProducts
#   ## * imageId
#   ## * instanceId
#   ## * instanceType
#   ## * kernelId
#   ## * pendingTime
#   ## * privateIp
#   ## * ramdiskId
#
  ## * region
#   ## * version
#   imds_tags = []
#
#   ## EC2 instance tags retrieved with DescribeTags action.
#   ## In case tag is empty upon retrieval it's omitted when tagging metrics.
#   ## Note that in order for this to work, role attached to EC2 instance or AWS
#   ## credentials available from the environment must have a policy attached, that
#   ## allows ec2:DescribeTags.
#   ##
#   ## For more information see:
#   ## https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API_DescribeTags.html
#   ec2_tags = []
#
#   ## Timeout for http requests made by against aws ec2 metadata endpoint.
#   timeout = "10s"
#
#   ## ordered controls whether or not the metrics need to stay in the same order
#   ## this plugin received them in. If false, this plugin will change the order
#   ## with requests hitting cached results moving through immediately and not
#   ## waiting on slower lookups. This may cause issues for you if you are
#   ## depending on the order of metrics staying
 the same. If so, set this to true.
#   ## Keeping the metrics ordered may be slightly slower.
#   ordered = false
#
#   ## max_parallel_calls is the maximum number of AWS API calls to be in flight
#   ## at the same time.
```

```
#   ## It's probably best to keep this number fairly low.
#   max_parallel_calls = 10


# # Clone metrics and apply modifications.
# [[processors.clone]]
#   ## All modifications on inputs and aggregators can be overridden:
#   # name_override = "new_name"
#   # name_prefix = "new_name_prefix"
#   # name_suffix = "new_name_suffix"
#
#   ## Tags to be added (all values must be strings)
#   # [processors.clone.tags]
#   #   additional_tag = "tag_value"


# # Convert values to another metric value type
# [[processors.converter]]
#   ## Tags to convert
#   ##
#   ## The table key determines the target type, and the array of key-values
#   ## select the keys to convert.  The array may contain globs.
#   ##   <target-type> = [<tag-key>...]
#   [processors.converter.tags]
#
    measurement = []
#     string = []
#     integer = []
#     unsigned = []
#     boolean = []
#     float = []
#
#   ## Fields to convert
#   ##
#   ## The table key determines the target type, and the array of key-values
#   ## select the keys to convert.  The array may contain globs.
#   ##   <target-type> = [<field-key>...]
#   [processors.converter.fields]
#     measurement = []
#     tag = []
#     string = []
#     integer = []
#     unsigned = []
#     boolean = []
#     float = []


# # Dates measurements, tags, and fields that pass through this filter.
```

```
# [[processors.date]]
#  ## New tag to create
#  tag_key = "month"
#
#  ## New field to create (cannot set both field_key and tag_key)
#  # field_key = "month"
#
#  ## Date format string, must be a representation of the Go "reference time"
#  ## which is "Mon Jan 2 15:04:05 -0700 MST 2006".
#  date_format = "Jan"
#
#  ## If destination is a field, date format can also be one of
#  ## "unix", "unix_ms", "unix_us", or "unix_ns",
 which will insert an integer field.
#  # date_format = "unix"
#
#  ## Offset duration added to the date string when writing the new tag.
#  # date_offset = "0s"
#
#  ## Timezone to use when creating the tag or field using a reference time
#  ## string.  This can be set to one of "UTC", "Local", or to a location name
#  ## in the IANA Time Zone database.
#  ##   example: timezone = "America/Los_Angeles"
#  # timezone = "UTC"


# # Filter metrics with repeating field values
# [[processors.dedup]]
#   ## Maximum time to suppress output
#   dedup_interval = "600s"


# # Defaults sets default value(s) for specified fields that are not set on incoming metrics.
# [[processors.defaults]]
#   ## Ensures a set of fields always exists on your metric(s) with their
#   ## respective default value.
#   ## For any given field pair (key = default), if it's not set, a field
#   ## is set on the metric with the specified default.
#   ##
#   ## A field is considered not set if it is nil on the incoming
 metric;
#   ## or it is not nil but its value is an empty string or is a string
#   ## of one or more spaces.
#   ##   <target-field> = <value>
#   # [processors.defaults.fields]
#   #   field_1 = "bar"
#   #   time_idle = 0
#   #   is_error = true
```

```
# # Map enum values according to given table.
# [[processors.enum]]
#   [[processors.enum.mapping]]
#     ## Name of the field to map. Globs accepted.
#     field = "status"
#
#     ## Name of the tag to map. Globs accepted.
#     # tag = "status"
#
#     ## Destination tag or field to be used for the mapped value.  By default the
#     ## source tag or field is used, overwriting the original value.
#     dest = "status_code"
#
#     ## Default value to be used for all values not contained in the mapping
#     ## table.  When unset, the unmodified value for the field will be used if no
#     ## match is found.
#     # default = 0
#
#     ## Table of mappings
#     [processors.enum.mapping.value_mappings]
#       green = 1
#       amber
 = 2
#       red = 3


# # Run executable as long-running processor plugin
# [[processors.execd]]
#  ## Program to run as daemon
#  ## eg: command = ["/path/to/your_program", "arg1", "arg2"]
#  command = ["cat"]
#
#   ## Delay before the process is restarted after an unexpected termination
#   restart_delay = "10s"


# # Performs file path manipulations on tags and fields
# [[processors.filepath]]
#   ## Treat the tag value as a path and convert it to its last element, storing the result in a new tag
#   # [[processors.filepath.basename]]
#   #   tag = "path"
#   #   dest = "basepath"
#
#   ## Treat the field value as a path and keep all but the last element of path, typically the path's directory
#   # [[processors.filepath.dirname]]
#   #   field = "path"
```

```
#
#   ## Treat the tag value as a path, converting it to its the last element without its suffix
#   # [[processors.filepath.stem]]
#   #   tag = "path"
#
#   ## Treat the tag value as a path, converting it to the shortest path name
 equivalent
#   ## to path by purely lexical processing
#   # [[processors.filepath.clean]]
#   #   tag = "path"
#
#   ## Treat the tag value as a path, converting it to a relative path that is lexically
#   ## equivalent to the source path when joined to 'base_path'
#   # [[processors.filepath.rel]]
#   #   tag = "path"
#   #   base_path = "/var/log"
#
#   ## Treat the tag value as a path, replacing each separator character in path with a '/' character. Has only
#   ## effect on Windows
#   # [[processors.filepath.toslash]]
#   #   tag = "path"


# # Add a tag of the network interface name looked up over SNMP by interface number
# [[processors.ifname]]
#   ## Name of tag holding the interface number
#   # tag = "ifIndex"
#
#   ## Name of output tag where service name will be added
#   # dest = "ifName"
#
#   ## Name of tag of the SNMP agent to request the interface name from
#   # agent = "agent"
#
#   ## Timeout for each request.
#   # timeout = "5s"
#
#   ## SNMP version; can be 1,
 2, or 3.
#   # version = 2
#
#   ## SNMP community string.
#   # community = "public"
#
#   ## Number of retries to attempt.
#   # retries = 3
#
#   ## The GETBULK max-repetitions parameter.
```

```
#   # max_repetitions = 10
#
#   ## SNMPv3 authentication and encryption options.
#   ##
#   ## Security Name.
#   # sec_name = "myuser"
#   ## Authentication protocol; one of "MD5", "SHA", or "".
#   # auth_protocol = "MD5"
#   ## Authentication password.
#   # auth_password = "pass"
#   ## Security Level; one of "noAuthNoPriv", "authNoPriv", or "authPriv".
#   # sec_level = "authNoPriv"
#   ## Context Name.
#   # context_name = ""
#   ## Privacy protocol used for encrypted messages; one of "DES", "AES" or "".
#   # priv_protocol = ""
#   ## Privacy password used for encrypted messages.
#   # priv_password = ""
#
#   ## max_parallel_lookups is the maximum number of SNMP requests to
#   ## make at the same time.
#   # max_parallel_lookups = 100
#
#   ## ordered controls whether or not the metrics
 need to stay in the
#   ## same order this plugin received them in. If false, this plugin
#   ## may change the order when data is cached.  If you need metrics to
#   ## stay in order set this to true.  keeping the metrics ordered may
#   ## be slightly slower
#   # ordered = false
#
#   ## cache_ttl is the amount of time interface names are cached for a
#   ## given agent.  After this period elapses if names are needed they
#   ## will be retrieved again.
#   # cache_ttl = "8h"


# # Apply metric modifications using override semantics.
# [[processors.override]]
#   ## All modifications on inputs and aggregators can be overridden:
#   # name_override = "new_name"
#   # name_prefix = "new_name_prefix"
#   # name_suffix = "new_name_suffix"
#
#   ## Tags to be added (all values must be strings)
#   # [processors.override.tags]
#   #   additional_tag = "tag_value"
```

```
# # Parse a value in a specified field/tag(s) and add the result in a new metric
# [[processors.parser]]
#   ## The name of the
 fields whose value will be parsed.
#   parse_fields = []
#
#   ## If true, incoming metrics are not emitted.
#   drop_original = false
#
#   ## If set to override, emitted metrics will be merged by overriding the
#   ## original metric using the newly parsed metrics.
#   merge = "override"
#
#   ## The dataformat to be read from files
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"


# # Rotate a single valued metric into a multi field metric
# [[processors.pivot]]
#   ## Tag to use for naming the new field.
#   tag_key = "name"
#   ## Field to use as the value of the new field.
#   value_key = "value"


# # Given a tag/field of a TCP or UDP port number, add a tag/field of the service name looked up in the system
services file
# [[processors.port_name]]
# [[processors.port_name]]
#   ## Name of tag holding the port
 number
#   # tag = "port"
#   ## Or name of the field holding the port number
#   # field = "port"
#
#   ## Name of output tag or field (depending on the source) where service name will be added
#   # dest = "service"
#
#   ## Default tcp or udp
#   # default_protocol = "tcp"
#
#   ## Tag containing the protocol (tcp or udp, case-insensitive)
#   # protocol_tag = "proto"
#
```

```
#   ## Field containing the protocol (tcp or udp, case-insensitive)
#   # protocol_field = "proto"


# # Print all metrics that pass through this filter.
# [[processors.printer]]


# # Transforms tag and field values as well as measurement, tag and field names with regex pattern
# [[processors.regex]]
#   ## Tag and field conversions defined in a separate sub-tables
#   # [[processors.regex.tags]]
#   #   ## Tag to change
#   #   key = "resp_code"
#   #   ## Regular expression to match on a tag value
#   #   pattern = "^(\\d)\\d\\d$"
#   #   ## Matches of the pattern will be replaced with this string.  Use ${1}
#
 #   ## notation to use the text of the first submatch.
#   #   replacement = "${1}xx"
#
#   # [[processors.regex.fields]]
#   #   ## Field to change
#   #   key = "request"
#   #   ## All the power of the Go regular expressions available here
#   #   ## For example, named subgroups
#   #   pattern = "^/api(?P<method>/[\\w/]+)\\S*"
#   #   replacement = "${method}"
#   #   ## If result_key is present, a new field will be created
#   #   ## instead of changing existing field
#   #   result_key = "method"
#
#   ## Multiple conversions may be applied for one field sequentially
#   ## Let's extract one more value
#   # [[processors.regex.fields]]
#   #   key = "request"
#   #   pattern = ".*category=(\\w+).*"
#   #   replacement = "${1}"
#   #   result_key = "search_category"
#
#   ## Rename metric fields
#   # [[processors.regex.field_rename]]
#   #   ## Regular expression to match on a field name
#   #   pattern = "^search_(\\w+)d$"
#   #   ## Matches of the pattern will be replaced with
 this string.  Use ${1}
#   #   ## notation to use the text of the first submatch.
#   #   replacement = "${1}"
```

```
#   #   ## If the new field name already exists, you can either "overwrite" the
#   #   ## existing one with the value of the renamed field OR you can "keep"
#   #   ## both the existing and source field.
#   #   # result_key = "keep"
#
#   ## Rename metric tags
#   # [[processors.regex.tag_rename]]
#   #   ## Regular expression to match on a tag name
#   #   pattern = "^search_(\\w+)d$"
#   #   ## Matches of the pattern will be replaced with this string.  Use ${1}
#   #   ## notation to use the text of the first submatch.
#   #   replacement = "${1}"
#   #   ## If the new tag name already exists, you can either "overwrite" the
#   #   ## existing one with the value of the renamed tag OR you can "keep"
#   #   ## both the existing and source tag.
#   #   # result_key = "keep"
#
#   ## Rename metrics
#   # [[processors.regex.metric_rename]]
#   #   ## Regular expression to match
 on an metric name
#   #   pattern = "^search_(\\w+)d$"
#   #   ## Matches of the pattern will be replaced with this string.  Use ${1}
#   #   ## notation to use the text of the first submatch.
#   #   replacement = "${1}"


# # Rename measurements, tags, and fields that pass through this filter.
# [[processors.rename]]


# # ReverseDNS does a reverse lookup on IP addresses to retrieve the DNS name
# [[processors.reverse_dns]]
#   ## For optimal performance, you may want to limit which metrics are passed to this
#   ## processor. eg:
#   ## namepass = ["my_metric_*"]
#
#   ## cache_ttl is how long the dns entries should stay cached for.
#   ## generally longer is better, but if you expect a large number of diverse lookups
#   ## you'll want to consider memory use.
#   cache_ttl = "24h"
#
#   ## lookup_timeout is how long should you wait for a single dns request to repsond.
#   ## this is also the maximum acceptable latency for a metric travelling through
#   ## the reverse_dns processor.
 After lookup_timeout is exceeded, a metric will
#   ## be passed on unaltered.
#   ## multiple simultaneous resolution requests for the same IP will only make a
```

```
#   ## single rDNS request, and they will all wait for the answer for this long.
#   lookup_timeout = "3s"
#
#   ## max_parallel_lookups is the maximum number of dns requests to be in flight
#   ## at the same time. Requesting hitting cached values do not count against this
#   ## total, and neither do mulptiple requests for the same IP.
#   ## It's probably best to keep this number fairly low.
#   max_parallel_lookups = 10
#
#   ## ordered controls whether or not the metrics need to stay in the same order
#   ## this plugin received them in. If false, this plugin will change the order
#   ## with requests hitting cached results moving through immediately and not
#   ## waiting on slower lookups. This may cause issues for you if you are
#   ## depending on the order of metrics staying the same. If so, set this to true.
#
 ## keeping the metrics ordered may be slightly slower.
#   ordered = false
#
#   [[processors.reverse_dns.lookup]]
#     ## get the ip from the field "source_ip", and put the result in the field "source_name"
#     field = "source_ip"
#     dest = "source_name"
#
#   [[processors.reverse_dns.lookup]]
#     ## get the ip from the tag "destination_ip", and put the result in the tag
#     ## "destination_name".
#     tag = "destination_ip"
#     dest = "destination_name"
#
#     ## If you would prefer destination_name to be a field instead, you can use a
#     ## processors.converter after this one, specifying the order attribute.


# # Add the S2 Cell ID as a tag based on latitude and longitude fields
# [[processors.s2geo]]
#   ## The name of the lat and lon fields containing WGS-84 latitude and
#   ## longitude in decimal degrees.
#   # lat_field = "lat"
#   # lon_field = "lon"
#
#   ## New tag to create
#   # tag_key = "s2_cell_id"
#
#   ## Cell level (see https://s2geometry.io/resources/s2cell_statistics.html)
#
   # cell_level = 9
```

```
# # Process metrics using a Starlark script
# [[processors.starlark]]
#   ## The Starlark source can be set as a string in this configuration file, or
#   ## by referencing a file containing the script.  Only one source or script
#   ## should be set at once.
#   ##
#   ## Source of the Starlark script.
#   source = '''
# def apply(metric):
#  return metric
# '''
#
#   ## File containing a Starlark script.
#   # script = "/usr/local/bin/myscript.star"
#
#   ## The constants of the Starlark script.
#   # [processors.starlark.constants]
#   #   max_size = 10
#   #   threshold = 0.75
#   #   default_name = "Julia"
#   #   debug_mode = true


# # Perform string processing on tags, fields, and measurements
# [[processors.strings]]
#   ## Convert a tag value to uppercase
#   # [[processors.strings.uppercase]]
#   #   tag = "method"
#
#   ## Convert a field value to lowercase and store in a new field
#   # [[processors.strings.lowercase]]
#
#    field = "uri_stem"
#   #   dest = "uri_stem_normalised"
#
#   ## Convert a field value to titlecase
#   # [[processors.strings.titlecase]]
#   #   field = "status"
#
#   ## Trim leading and trailing whitespace using the default cutset
#   # [[processors.strings.trim]]
#   #   field = "message"
#
#   ## Trim leading characters in cutset
#   # [[processors.strings.trim_left]]
#   #   field = "message"
#   #   cutset = "\t"
#
```

```
#   ## Trim trailing characters in cutset
#   # [[processors.strings.trim_right]]
#   #   field = "message"
#   #   cutset = "\r\n"
#
#   ## Trim the given prefix from the field
#   # [[processors.strings.trim_prefix]]
#   #   field = "my_value"
#   #   prefix = "my_"
#
#   ## Trim the given suffix from the field
#   # [[processors.strings.trim_suffix]]
#   #   field = "read_count"
#   #   suffix = "_count"
#
#   ## Replace all non-overlapping instances of old with new
#   # [[processors.strings.replace]]
#   #   measurement = "*"
#   #   old = ":"
#   #   new =
 "_"
#
#   ## Trims strings based on width
#   # [[processors.strings.left]]
#   #   field = "message"
#   #   width = 10
#
#   ## Decode a base64 encoded utf-8 string
#   # [[processors.strings.base64decode]]
#   #   field = "message"
#
#   ## Sanitize a string to ensure it is a valid utf-8 string
#   ## Each run of invalid UTF-8 byte sequences is replaced by the replacement string, which may be empty
#   # [[processors.strings.valid_utf8]]
#   #   field = "message"
#   #   replacement = ""


# # Restricts the number of tags that can pass through this filter and chooses which tags to preserve when over the
limit.
# [[processors.tag_limit]]
#   ## Maximum number of tags to preserve
#   limit = 10
#
#   ## List of tags to preferentially preserve
#   keep = ["foo", "bar", "baz"]
```

```
# # Uses a Go template to create a new tag
# [[processors.template]]
#   ## Tag to set with the output of the template.
#   tag = "topic"
#
#   ## Go template used to create the tag value.  In order to ease TOML
#
  ## escaping requirements, you may wish to use single quotes around the
#   ## template string.
#   template = '{{ .Tag "hostname" }}.{{ .Tag "level" }}'


# # Print all metrics that pass through this filter.
# [[processors.topk]]
#   ## How many seconds between aggregations
#   # period = 10
#
#   ## How many top metrics to return
#   # k = 10
#
#   ## Over which tags should the aggregation be done. Globs can be specified, in
#   ## which case any tag matching the glob will aggregated over. If set to an
#   ## empty list is no aggregation over tags is done
#   # group_by = ['*']
#
#   ## Over which fields are the top k are calculated
#   # fields = ["value"]
#
#   ## What aggregation to use. Options: sum, mean, min, max
#   # aggregation = "mean"
#
#   ## Instead of the top k largest metrics, return the bottom k lowest metrics
#   # bottomk = false
#
#   ## The plugin assigns each metric a GroupBy tag generated from its name and
#   ## tags. If this setting is different than "" the
 plugin will add a
#   ## tag (which name will be the value of this setting) to each metric with
#   ## the value of the calculated GroupBy tag. Useful for debugging
#   # add_groupby_tag = ""
#
#   ## These settings provide a way to know the position of each metric in
#   ## the top k. The 'add_rank_field' setting allows to specify for which
#   ## fields the position is required. If the list is non empty, then a field
#   ## will be added to each and every metric for each string present in this
#   ## setting. This field will contain the ranking of the group that
#   ## the metric belonged to when aggregated over that field.
#   ## The name of the field will be set to the name of the aggregation field,
```

```
#   ## suffixed with the string '_topk_rank'
#   # add_rank_fields = []
#
#   ## These settings provide a way to know what values the plugin is generating
#   ## when aggregating metrics. The 'add_aggregate_field' setting allows to
#   ## specify for which fields the final aggregation
 value is required. If the
#   ## list is non empty, then a field will be added to each every metric for
#   ## each field present in this setting. This field will contain
#   ## the computed aggregation for the group that the metric belonged to when
#   ## aggregated over that field.
#   ## The name of the field will be set to the name of the aggregation field,
#   ## suffixed with the string '_topk_aggregate'
#   # add_aggregate_fields = []


# # Rotate multi field metric into several single field metrics
# [[processors.unpivot]]
#   ## Tag to use for the name.
#   tag_key = "name"
#   ## Field to use for the name of the value.
#   value_key = "value"


###############################################################################
#                            AGGREGATOR PLUGINS                               #
###############################################################################


# # Keep the aggregate basicstats of each metric passing through.
# [[aggregators.basicstats]]
#
  ## The period on which to flush & clear the aggregator.
#   period = "30s"
#
#   ## If true, the original metric will be dropped by the
#   ## aggregator and will not get sent to the output plugins.
#   drop_original = false
#
#   ## Configures which basic stats to push as fields
#   # stats = ["count", "min", "max", "mean", "stdev", "s2", "sum"]


# # Calculates a derivative for every field.
# [[aggregators.derivative]]
#  ## The period in which to flush the aggregator.
#  period = "30s"
#  ##
```

```
#  ## If true, the original metric will be dropped by the
#  ## aggregator and will not get sent to the output plugins.
#  drop_original = false
#  ##
#  ## This aggregator will estimate a derivative for each field, which is
#  ## contained in both the first and last metric of the aggregation interval.
#  ## Without further configuration the derivative will be calculated with
#  ## respect to the time difference between these two measurements in seconds.
#  ## The formula applied is for every
 field:
#  ##
#  ##              value_last - value_first
#  ## derivative = -------------------------
#  ##             time_difference_in_seconds
#  ##
#  ## The resulting derivative will be named *fieldname_rate*. The suffix
#  ## "_rate" can be configured by the *suffix* parameter. When using a
#  ## derivation variable you can include its name for more clarity.
#  # suffix = "_rate"
#  ##
#  ## As an abstraction the derivative can be calculated not only by the time
#  ## difference but by the difference of a field, which is contained in the
#  ## measurement. This field is assumed to be monotonously increasing. This
#  ## feature is used by specifying a *variable*.
#  ## Make sure the specified variable is not filtered and exists in the metrics
#  ## passed to this aggregator!
#  # variable = ""
#  ##
#  ## When using a field as the derivation parameter the name of that field will
#  ## be used for the resulting derivative, e.g. *fieldname_by_parameter*.
#  ##
#  ## Note, that
 the calculation is based on the actual timestamp of the
#  ## measurements. When there is only one measurement during that period, the
#  ## measurement will be rolled over to the next period. The maximum number of
#  ## such roll-overs can be configured with a default of 10.
#  # max_roll_over = 10
#  ##


# # Report the final metric of a series
# [[aggregators.final]]
#   ## The period on which to flush & clear the aggregator.
#   period = "30s"
#   ## If true, the original metric will be dropped by the
#   ## aggregator and will not get sent to the output plugins.
#   drop_original = false
#
```

```
#   ## The time that a series is not updated until considering it final.
#   series_timeout = "5m"


# # Create aggregate histograms.
# [[aggregators.histogram]]
#   ## The period in which to flush the aggregator.
#   period = "30s"
#
#   ## If true, the original metric will be dropped by the
#   ## aggregator and will not get sent to the output plugins.
#   drop_original = false
#
#   ## If true,
 the histogram will be reset on flush instead
#   ## of accumulating the results.
#   reset = false
#
#   ## Whether bucket values should be accumulated. If set to false, "gt" tag will be added.
#   ## Defaults to true.
#   cumulative = true
#
#   ## Example config that aggregates all fields of the metric.
#   # [[aggregators.histogram.config]]
#   #   ## Right borders of buckets (with +Inf implicitly added).
#   #   buckets = [0.0, 15.6, 34.5, 49.1, 71.5, 80.5, 94.5, 100.0]
#   #   ## The name of metric.
#   #   measurement_name = "cpu"
#
#   ## Example config that aggregates only specific fields of the metric.
#   # [[aggregators.histogram.config]]
#   #   ## Right borders of buckets (with +Inf implicitly added).
#   #   buckets = [0.0, 10.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0, 100.0]
#   #   ## The name of metric.
#   #   measurement_name = "diskio"
#   #   ## The concrete fields of metric
#   #   fields = ["io_time", "read_time", "write_time"]


# # Merge metrics into
 multifield metrics by series key
# [[aggregators.merge]]
#   ## If true, the original metric will be dropped by the
#   ## aggregator and will not get sent to the output plugins.
#   drop_original = true


# # Keep the aggregate min/max of each metric passing through.
```

```
# [[aggregators.minmax]]
#   ## General Aggregator Arguments:
#   ## The period on which to flush & clear the aggregator.
#   period = "30s"
#   ## If true, the original metric will be dropped by the
#   ## aggregator and will not get sent to the output plugins.
#   drop_original = false


# # Keep the aggregate quantiles of each metric passing through.
# [[aggregators.quantile]]
#   ## General Aggregator Arguments:
#   ## The period on which to flush & clear the aggregator.
#   period = "30s"
#
#   ## If true, the original metric will be dropped by the
#   ## aggregator and will not get sent to the output plugins.
#   drop_original = false
#
#   ## Quantiles to output in the range [0,1]
#   # quantiles = [0.25, 0.5, 0.75]
#
#
  ## Type of aggregation algorithm
#   ## Supported are:
#   ##  "t-digest" -- approximation using centroids, can cope with large number of samples
#   ##  "exact R7" -- exact computation also used by Excel or NumPy (Hyndman & Fan 1996 R7)
#   ##  "exact R8" -- exact computation (Hyndman & Fan 1996 R8)
#   ## NOTE: Do not use "exact" algorithms with large number of samples
#   ##       to not impair performance or memory consumption!
#   # algorithm = "t-digest"
#
#   ## Compression for approximation (t-digest). The value needs to be
#   ## greater or equal to 1.0. Smaller values will result in more
#   ## performance but less accuracy.
#   # compression = 100.0


# # Aggregate metrics using a Starlark script
# [[aggregators.starlark]]
#   ## The Starlark source can be set as a string in this configuration file, or
#   ## by referencing a file containing the script.  Only one source or script
#   ## should be set at once.
#   ##
#   ## Source of the Starlark script.
#   source
 = '''
# state = {}
```

```
#
# def add(metric):
#   state["last"] = metric
#
# def push():
#   return state.get("last")
#
# def reset():
#   state.clear()
# '''
#
#   ## File containing a Starlark script.
#   # script = "/usr/local/bin/myscript.star"
#
#   ## The constants of the Starlark script.
#   # [aggregators.starlark.constants]
#   #   max_size = 10
#   #   threshold = 0.75
#   #   default_name = "Julia"
#   #   debug_mode = true


# # Count the occurrence of values in fields.
# [[aggregators.valuecounter]]
#   ## General Aggregator Arguments:
#   ## The period on which to flush & clear the aggregator.
#   period = "30s"
#   ## If true, the original metric will be dropped by the
#   ## aggregator and will not get sent to the output plugins.
#   drop_original = false
#   ## The fields for which the values will be counted
#   fields = []


###############################################################################
#                            INPUT PLUGINS
      #
###############################################################################


# Read metrics about cpu usage
[[inputs.cpu]]
 ## Whether to report per-cpu stats or not
 percpu = true
 ## Whether to report total system cpu stats or not
 totalcpu = true
 ## If true, collect raw CPU time metrics
 collect_cpu_time = false
```

```
 ## If true, compute and report the sum of all non-idle CPU states
 report_active = false


# Read metrics about disk usage by mount point
[[inputs.disk]]
 ## By default stats will be gathered for all mount points.
 ## Set mount_points will restrict the stats to only the specified mount points.
 # mount_points = ["/"]

 ## Ignore mount points by filesystem type.
 ignore_fs = ["tmpfs", "devtmpfs", "devfs", "iso9660", "overlay", "aufs", "squashfs"]


# Read metrics about disk IO by device
[[inputs.diskio]]
 ## By default, telegraf will gather stats for all devices including
 ## disk partitions.
 ## Setting devices will restrict the stats to the
 specified devices.
 # devices = ["sda", "sdb", "vd*"]
 ## Uncomment the following line if you need disk serial numbers.
 # skip_serial_number = false
 #
 ## On systems which support it, device metadata can be added in the form of
 ## tags.
 ## Currently only Linux is supported via udev properties. You can view
 ## available properties for a device by running:
 ## 'udevadm info -q property -n /dev/sda'
 ## Note: Most, but not all, udev properties can be accessed this way. Properties
 ## that are currently inaccessible include DEVTYPE, DEVNAME, and DEVPATH.
 # device_tags = ["ID_FS_TYPE", "ID_FS_USAGE"]
 #
 ## Using the same metadata source as device_tags, you can also customize the
 ## name of the device via templates.
 ## The 'name_templates' parameter is a list of templates to try and apply to
 ## the device. The template may contain variables in the form of '$PROPERTY' or
 ## '${PROPERTY}'. The first template which does not contain any variables not
 ## present for
 the device is used as the device name tag.
 ## The typical use case is for LVM volumes, to get the VG/LV name instead of
 ## the near-meaningless DM-0 name.
 # name_templates = ["$ID_FS_LABEL","$DM_VG_NAME/$DM_LV_NAME"]


# Get kernel statistics from /proc/stat
[[inputs.kernel]]
 # no configuration
```

```
# Read metrics about memory usage
[[inputs.mem]]
 # no configuration


# Get the number of processes and group them by status
[[inputs.processes]]
 # no configuration


# Read metrics about swap memory usage
[[inputs.swap]]
 # no configuration


# Read metrics about system load & uptime
[[inputs.system]]
 ## Uncomment to remove deprecated metrics.
 # fielddrop = ["uptime_format"]


# # Gather ActiveMQ metrics
# [[inputs.activemq]]
#   ## ActiveMQ WebConsole URL
#   url = "http://127.0.0.1:8161"
#
#   ## Required ActiveMQ Endpoint
#   ##   deprecated in 1.11; use the url option
#   # server = "127.0.0.1"
#   # port = 8161
#
#   ## Credentials for basic HTTP authentication
#   # username
 = "admin"
#   # password = "admin"
#
#   ## Required ActiveMQ webadmin root path
#   # webadmin = "admin"
#
#   ## Maximum time to receive response.
#   # response_timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
```

```
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read stats from aerospike server(s)
# [[inputs.aerospike]]
#   ## Aerospike servers to connect to (with port)
#   ## This plugin will query all namespaces the aerospike
#   ## server has configured and get stats for them.
#   servers = ["localhost:3000"]
#
#   # username = "telegraf"
#   # password = "pa$$word"
#
#   ## Optional TLS Config
#   # enable_tls = false
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## If false, skip chain & host verification
#   # insecure_skip_verify = true
#
#
  # Feature Options
#   # Add namespace variable to limit the namespaces executed on
#   # Leave blank to do all
#   # disable_query_namespaces = true # default false
#   # namespaces = ["namespace1", "namespace2"]
#
#   # Enable set level telemetry
#   # query_sets = true # default: false
#   # Add namespace set combinations to limit sets executed on
#   # Leave blank to do all sets
#   # sets = ["namespace1/set1", "namespace1/set2", "namespace3"]
#
#   # Histograms
#   # enable_ttl_histogram = true # default: false
#   # enable_object_size_linear_histogram = true # default: false
#
#   # by default, aerospike produces a 100 bucket histogram
#   # this is not great for most graphing tools, this will allow
#   # the ability to squash this to a smaller number of buckets
#   # To have a balanced histogram, the number of buckets chosen
#   # should divide evenly into 100.
#   # num_histogram_buckets = 100 # default: 10


# # Query statistics from AMD Graphics cards using rocm-smi binary
```

```
#
 [[inputs.amd_rocm_smi]]
# ## Optional: path to rocm-smi binary, defaults to $PATH via exec.LookPath
# # bin_path = "/opt/rocm/bin/rocm-smi"
#
# ## Optional: timeout for GPU polling
# # timeout = "5s"


# # Read Apache status information (mod_status)
# [[inputs.apache]]
#   ## An array of URLs to gather from, must be directed at the machine
#   ## readable version of the mod_status page including the auto query string.
#   ## Default is "http://localhost/server-status?auto".
#   urls = ["http://localhost/server-status?auto"]
#
#   ## Credentials for basic HTTP authentication.
#   # username = "myuser"
#   # password = "mypassword"
#
#   ## Maximum time to receive response.
#   # response_timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Monitor APC UPSes connected to apcupsd
# [[inputs.apcupsd]]
#
  # A list of running apcupsd server to connect to.
#   # If not provided will default to tcp://127.0.0.1:3551
#   servers = ["tcp://127.0.0.1:3551"]
#
#   ## Timeout for dialing server.
#   timeout = "5s"


# # Gather metrics from Apache Aurora schedulers
# [[inputs.aurora]]
#   ## Schedulers are the base addresses of your Aurora Schedulers
#   schedulers = ["http://127.0.0.1:8081"]
#
#   ## Set of role types to collect metrics from.
```

```
#   ##
#   ## The scheduler roles are checked each interval by contacting the
#   ## scheduler nodes; zookeeper is not contacted.
#   # roles = ["leader", "follower"]
#
#   ## Timeout is the max time for total network operations.
#   # timeout = "5s"
#
#   ## Username and password are sent using HTTP Basic Auth.
#   # username = "username"
#   # password = "pa$$word"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain
 & host verification
#   # insecure_skip_verify = false


# # Gather Azure Storage Queue metrics
# [[inputs.azure_storage_queue]]
#   ## Required Azure Storage Account name
#   account_name = "mystorageaccount"
#
#   ## Required Azure Storage Account access key
#   account_key = "storageaccountaccesskey"
#
#   ## Set to false to disable peeking age of oldest message (executes faster)
#   # peek_oldest_message_age = true


# # Read metrics of bcache from stats_total and dirty_data
# [[inputs.bcache]]
#   ## Bcache sets path
#   ## If not specified, then default is:
#   bcachePath = "/sys/fs/bcache"
#
#   ## By default, Telegraf gather stats for all bcache devices
#   ## Setting devices will restrict the stats to the specified
#   ## bcache devices.
#   bcacheDevs = ["bcache0"]


# # Collects Beanstalkd server and tubes stats
# [[inputs.beanstalkd]]
#   ## Server to collect data from
```

```
#   server = "localhost:11300"
#
#   ## List of tubes to gather stats about.
#   ## If no tubes specified
 then data gathered for each tube on server reported by list-tubes command
#   tubes = ["notifications"]


# # Read metrics exposed by Beat
# [[inputs.beat]]
#   ## An URL from which to read Beat-formatted JSON
#   ## Default is "http://127.0.0.1:5066".
#   url = "http://127.0.0.1:5066"
#
#   ## Enable collection of the listed stats
#   ## An empty list means collect all. Available options are currently
#   ## "beat", "libbeat", "system" and "filebeat".
#   # include = ["beat", "libbeat", "filebeat"]
#
#   ## HTTP method
#   # method = "GET"
#
#   ## Optional HTTP headers
#   # headers = {"X-Special-Header" = "Special-Value"}
#
#   ## Override HTTP "Host" header
#   # host_header = "logstash.example.com"
#
#   ## Timeout for HTTP requests
#   # timeout = "5s"
#
#   ## Optional HTTP Basic Auth credentials
#   # username = "username"
#   # password = "pa$$word"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read BIND nameserver XML statistics
# [[inputs.bind]]
#   ## An array of BIND XML statistics URI to gather stats.
#   ## Default is "http://localhost:8053/xml/v3".
```

```
#   # urls = ["http://localhost:8053/xml/v3"]
#   # gather_memory_contexts = false
#   # gather_views = false
#
#   ## Timeout for http requests made by bind nameserver
#   # timeout = "4s"


# # Collect bond interface status, slaves statuses and failures count
# [[inputs.bond]]
#   ## Sets 'proc' directory path
#   ## If not specified, then default is /proc
#   # host_proc = "/proc"
#
#   ## By default, telegraf gather stats for all bond interfaces
#   ## Setting interfaces will restrict the stats to the specified
#   ## bond interfaces.
#   # bond_interfaces = ["bond0"]


# # Collect Kafka topics and consumers status from Burrow HTTP API.
# [[inputs.burrow]]
#   ## Burrow API endpoints in format "schema://host:port".
#
    ## Default is "http://localhost:8000".
#   servers = ["http://localhost:8000"]
#
#   ## Override Burrow API prefix.
#   ## Useful when Burrow is behind reverse-proxy.
#   # api_prefix = "/v3/kafka"
#
#   ## Maximum time to receive response.
#   # response_timeout = "5s"
#
#   ## Limit per-server concurrent connections.
#   ## Useful in case of large number of topics or consumer groups.
#   # concurrent_connections = 20
#
#   ## Filter clusters, default is no filtering.
#   ## Values can be specified as glob patterns.
#   # clusters_include = []
#   # clusters_exclude = []
#
#   ## Filter consumer groups, default is no filtering.
#   ## Values can be specified as glob patterns.
#   # groups_include = []
#   # groups_exclude = []
#
```

```
#   ## Filter topics, default is no filtering.
#   ## Values can be specified as glob patterns.
#   # topics_include = []
#   # topics_exclude = []
#
#   ## Credentials for basic HTTP authentication.
#   # username = ""
#   # password = ""
#
#   ## Optional
 SSL config
#   # ssl_ca = "/etc/telegraf/ca.pem"
#   # ssl_cert = "/etc/telegraf/cert.pem"
#   # ssl_key = "/etc/telegraf/key.pem"
#   # insecure_skip_verify = false


# # Collects performance metrics from the MON, OSD, MDS and RGW nodes in a Ceph storage cluster.
# [[inputs.ceph]]
#   ## This is the recommended interval to poll.  Too frequent and you will lose
#   ## data points due to timeouts during rebalancing and recovery
#   interval = '1m'
#
#   ## All configuration values are optional, defaults are shown below
#
#   ## location of ceph binary
#   ceph_binary = "/usr/bin/ceph"
#
#   ## directory in which to look for socket files
#   socket_dir = "/var/run/ceph"
#
#   ## prefix of MON and OSD socket files, used to determine socket type
#   mon_prefix = "ceph-mon"
#   osd_prefix = "ceph-osd"
#   mds_prefix = "ceph-mds"
#   rgw_prefix = "ceph-client"
#
#   ## suffix used to identify socket files
#   socket_suffix = "asok"
#
#   ## Ceph user to authenticate as, ceph will search
 for the corresponding keyring
#   ## e.g. client.admin.keyring in /etc/ceph, or the explicit path defined in the
#   ## client section of ceph.conf for example:
#   ##
#   ##     [client.telegraf]
#   ##         keyring = /etc/ceph/client.telegraf.keyring
#   ##
```

```
#   ## Consult the ceph documentation for more detail on keyring generation.
#   ceph_user = "client.admin"
#
#   ## Ceph configuration to use to locate the cluster
#   ceph_config = "/etc/ceph/ceph.conf"
#
#   ## Whether to gather statistics via the admin socket
#   gather_admin_socket_stats = true
#
#   ## Whether to gather statistics via ceph commands, requires ceph_user and ceph_config
#   ## to be specified
#   gather_cluster_stats = false


# # Read specific statistics per cgroup
# [[inputs.cgroup]]
#   ## Directories in which to look for files, globs are supported.
#   ## Consider restricting paths to the set of cgroups you really
#   ## want to monitor if you have a large number of cgroups, to avoid
#   ## any cardinality
 issues.
#   # paths = [
#   #   "/sys/fs/cgroup/memory",
#   #   "/sys/fs/cgroup/memory/child1",
#   #   "/sys/fs/cgroup/memory/child2/*",
#   # ]
#   ## cgroup stat fields, as file names, globs are supported.
#   ## these file names are appended to each path from above.
#   # files = ["memory.*usage*", "memory.limit_in_bytes"]


# # Get standard chrony metrics, requires chronyc executable.
# [[inputs.chrony]]
#   ## If true, chronyc tries to perform a DNS lookup for the time server.
#   # dns_lookup = false


# # Pull Metric Statistics from Amazon CloudWatch
# [[inputs.cloudwatch]]
#   ## Amazon Region
#   region = "us-east-1"
#
#   ## Amazon Credentials
#   ## Credentials are loaded in the following order
#   ## 1) Web identity provider credentials via STS if role_arn and web_identity_token_file are specified
#   ## 2) Assumed credentials via STS if role_arn is specified
#   ## 3) explicit credentials from 'access_key' and 'secret_key'
#   ## 4) shared profile from 'profile'
```

```
#
  ## 5) environment variables
#   ## 6) shared credentials file
#   ## 7) EC2 Instance Profile
#   # access_key = ""
#   # secret_key = ""
#   # token = ""
#   # role_arn = ""
#   # web_identity_token_file = ""
#   # role_session_name = ""
#   # profile = ""
#   # shared_credential_file = ""
#
#   ## Endpoint to make request against, the correct endpoint is automatically
#   ## determined and this option should only be set if you wish to override the
#   ## default.
#   ##   ex: endpoint_url = "http://localhost:8000"
#   # endpoint_url = ""
#
#   ## Set http_proxy (telegraf uses the system wide proxy settings if it's is not set)
#   # http_proxy_url = "http://localhost:8888"
#
#   # The minimum period for Cloudwatch metrics is 1 minute (60s). However not all
#   # metrics are made available to the 1 minute period. Some are collected at
#   # 3 minute, 5 minute, or larger intervals. See https://aws.amazon.com/cloudwatch/faqs/#monitoring.
#   # Note that if a period is configured that is
 smaller than the minimum for a
#   # particular metric, that metric will not be returned by the Cloudwatch API
#   # and will not be collected by Telegraf.
#   #
#   ## Requested CloudWatch aggregation Period (required - must be a multiple of 60s)
#   period = "5m"
#
#   ## Collection Delay (required - must account for metrics availability via CloudWatch API)
#   delay = "5m"
#
#   ## Recommended: use metric 'interval' that is a multiple of 'period' to avoid
#   ## gaps or overlap in pulled data
#   interval = "5m"
#
#   ## Recommended if "delay" and "period" are both within 3 hours of request time. Invalid values will be ignored.
#   ## Recently Active feature will only poll for CloudWatch ListMetrics values that occurred within the last 3
Hours.
#   ## If enabled, it will reduce total API usage of the CloudWatch ListMetrics API and require less memory to
retain.
#   ## Do not enable if "period" or "delay" is longer than 3 hours, as it will not return data more than 3 hours old.
#
```

```
 ## See https://docs.aws.amazon.com/AmazonCloudWatch/latest/APIReference/API_ListMetrics.html
#   #recently_active = "PT3H"
#
#   ## Configure the TTL for the internal cache of metrics.
#   # cache_ttl = "1h"
#
#   ## Metric Statistic Namespaces (required)
#   namespaces = ["AWS/ELB"]
#   # A single metric statistic namespace that will be appended to namespaces on startup
#   # namespace = "AWS/ELB"
#
#   ## Maximum requests per second. Note that the global default AWS rate limit is
#   ## 50 reqs/sec, so if you define multiple namespaces, these should add up to a
#   ## maximum of 50.
#   ## See http://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/cloudwatch_limits.html
#   # ratelimit = 25
#
#   ## Timeout for http requests made by the cloudwatch client.
#   # timeout = "5s"
#
#   ## Namespace-wide statistic filters. These allow fewer queries to be made to
#   ## cloudwatch.
#   # statistic_include = [ "average", "sum", "minimum", "maximum", sample_count" ]
#   # statistic_exclude
 = []
#
#   ## Metrics to Pull
#   ## Defaults to all Metrics in Namespace if nothing is provided
#   ## Refreshes Namespace available metrics every 1h
#   #[[inputs.cloudwatch.metrics]]
#   #  names = ["Latency", "RequestCount"]
#   #
#   #  ## Statistic filters for Metric.  These allow for retrieving specific
#   #  ## statistics for an individual metric.
#   #  # statistic_include = [ "average", "sum", "minimum", "maximum", sample_count" ]
#   #  # statistic_exclude = []
#   #
#   #  ## Dimension filters for Metric.  All dimensions defined for the metric names
#   #  ## must be specified in order to retrieve the metric statistics.
#   #  ## 'value' has wildcard / 'glob' matching support such as 'p-*'.
#   #  [[inputs.cloudwatch.metrics.dimensions]]
#   #    name = "LoadBalancerName"
#   #    value = "p-example"


# # Collects conntrack stats from the configured directories and files.
# [[inputs.conntrack]]
#    ## The following defaults would work with multiple versions of conntrack.
```

```
#
   ## Note the nf_ and ip_ filename prefixes are mutually exclusive across
#    ## kernel versions, as are the directory locations.
#
#    ## Superset of filenames to look for within the conntrack dirs.
#    ## Missing files will be ignored.
#    files = ["ip_conntrack_count","ip_conntrack_max",
#            "nf_conntrack_count","nf_conntrack_max"]
#
#    ## Directories to search within for the conntrack files above.
#    ## Missing directories will be ignored.
#    dirs = ["/proc/sys/net/ipv4/netfilter","/proc/sys/net/netfilter"]


# # Gather health check statuses from services registered in Consul
# [[inputs.consul]]
#   ## Consul server address
#   # address = "localhost:8500"
#
#   ## URI scheme for the Consul server, one of "http", "https"
#   # scheme = "http"
#
#   ## Metric version controls the mapping from Consul metrics into
#   ## Telegraf metrics.
#   ##
#   ##   example: metric_version = 1; deprecated in 1.15
#   ##            metric_version = 2; recommended version
#
  # metric_version = 1
#
#   ## ACL token used in every request
#   # token = ""
#
#   ## HTTP Basic Authentication username and password.
#   # username = ""
#   # password = ""
#
#   ## Data center to query the health checks from
#   # datacenter = ""
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = true
#
#   ## Consul checks' tag splitting
```

```
#   # When tags are formatted like "key:value" with ":" as a delimiter then
#   # they will be splitted and reported as proper key:value in Telegraf
#   # tag_delimiter = ":"


# # Read per-node and per-bucket metrics from Couchbase
# [[inputs.couchbase]]
#   ## specify servers via a url matching:
#   ##  [protocol://][:password]@address[:port]
#   ##  e.g.
#   ##    http://couchbase-0.example.com/
#   ##    http://admin:secret@couchbase-0.example.com:8091/
#   ##
#
  ## If no servers are specified, then localhost is used as the host.
#   ## If no protocol is specified, HTTP is used.
#   ## If no port is specified, 8091 is used.
#   servers = ["http://localhost:8091"]
#
#   ## Filter bucket fields to include only here.
#   # bucket_stats_included = ["quota_percent_used", "ops_per_sec", "disk_fetches", "item_count", "disk_used",
"data_used", "mem_used"]
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification (defaults to false)
#   ## If set to false, tls_cert and tls_key are required
#   # insecure_skip_verify = false


# # Read CouchDB Stats from one or more servers
# [[inputs.couchdb]]
#   ## Works with CouchDB stats endpoints out of the box
#   ## Multiple Hosts from which to read CouchDB stats:
#   hosts = ["http://localhost:8086/_stats"]
#
#   ## Use HTTP Basic Authentication.
#   # basic_username =
 "telegraf"
#   # basic_password = "p@ssw0rd"


# # Fetch metrics from a CSGO SRCDS
# [[inputs.csgo]]
#   ## Specify servers using the following format:
#   ##    servers = [
```

```
#   ##      ["ip1:port1", "rcon_password1"],
#   ##      ["ip2:port2", "rcon_password2"],
#   ##    ]
#   #
#   ## If no servers are specified, no data will be collected
#   servers = []


# # Input plugin for DC/OS metrics
# [[inputs.dcos]]
#   ## The DC/OS cluster URL.
#   cluster_url = "https://dcos-ee-master-1"
#
#   ## The ID of the service account.
#   service_account_id = "telegraf"
#   ## The private key file for the service account.
#   service_account_private_key = "/etc/telegraf/telegraf-sa-key.pem"
#
#   ## Path containing login token.  If set, will read on every gather.
#   # token_file = "/home/dcos/.dcos/token"
#
#   ## In all filter options if both include and exclude are empty all items
#   ## will be collected.  Arrays may contain glob patterns.
#   ##
#   ## Node IDs to collect metrics from.  If
 a node is excluded, no metrics will
#   ## be collected for its containers or apps.
#   # node_include = []
#   # node_exclude = []
#   ## Container IDs to collect container metrics from.
#   # container_include = []
#   # container_exclude = []
#   ## Container IDs to collect app metrics from.
#   # app_include = []
#   # app_exclude = []
#
#   ## Maximum concurrent connections to the cluster.
#   # max_connections = 10
#   ## Maximum time to receive a response from cluster.
#   # response_timeout = "20s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## If false, skip chain & host verification
#   # insecure_skip_verify = true
#
```

```
#   ## Recommended filtering to reduce series cardinality.
#   # [inputs.dcos.tagdrop]
#   #   path = ["/var/lib/mesos/slave/slaves/*"]


# # Read metrics from one or many disque servers
# [[inputs.disque]]
#   ## An array of URI to gather stats about. Specify
 an ip or hostname
#   ## with optional port and password.
#   ## ie disque://localhost, disque://10.10.3.33:18832, 10.0.0.1:10000, etc.
#   ## If no servers are specified, then localhost is used as the host.
#   servers = ["localhost"]


# # Provide a native collection for dmsetup based statistics for dm-cache
# [[inputs.dmcache]]
#   ## Whether to report per-device stats or not
#   per_device = true


# # Query given DNS server and gives statistics
# [[inputs.dns_query]]
#   ## servers to query
#   servers = ["8.8.8.8"]
#
#   ## Network is the network protocol name.
#   # network = "udp"
#
#   ## Domains or subdomains to query.
#   # domains = ["."]
#
#   ## Query record type.
#   ## Possible values: A, AAAA, CNAME, MX, NS, PTR, TXT, SOA, SPF, SRV.
#   # record_type = "A"
#
#   ## Dns server port.
#   # port = 53
#
#   ## Query timeout in seconds.
#   # timeout = 2


# # Read metrics about docker containers
# [[inputs.docker]]
#   ## Docker Endpoint
#   ##   To use TCP, set endpoint
```

```
 = "tcp://[ip]:[port]"
#   ##   To use environment variables (ie, docker-machine), set endpoint = "ENV"
#   endpoint = "unix:///var/run/docker.sock"
#
#   ## Set to true to collect Swarm metrics(desired_replicas, running_replicas)
#   gather_services = false
#
#   ## Only collect metrics for these containers, collect all if empty
#   container_names = []
#
#   ## Set the source tag for the metrics to the container ID hostname, eg first 12 chars
#   source_tag = false
#
#   ## Containers to include and exclude. Globs accepted.
#   ## Note that an empty array for both will include all containers
#   container_name_include = []
#   container_name_exclude = []
#
#   ## Container states to include and exclude. Globs accepted.
#   ## When empty only containers in the "running" state will be captured.
#   ## example: container_state_include = ["created", "restarting", "running", "removing", "paused", "exited",
"dead"]
#   ## example: container_state_exclude = ["created", "restarting", "running",
 "removing", "paused", "exited", "dead"]
#   # container_state_include = []
#   # container_state_exclude = []
#
#   ## Timeout for docker list, info, and stats commands
#   timeout = "5s"
#
#   ## Whether to report for each container per-device blkio (8:0, 8:1...),
#   ## network (eth0, eth1, ...) and cpu (cpu0, cpu1, ...) stats or not.
#   ## Usage of this setting is discouraged since it will be deprecated in favor of 'perdevice_include'.
#   ## Default value is 'true' for backwards compatibility, please set it to 'false' so that 'perdevice_include' setting
#   ## is honored.
#   perdevice = true
#
#   ## Specifies for which classes a per-device metric should be issued
#   ## Possible values are 'cpu' (cpu0, cpu1, ...), 'blkio' (8:0, 8:1, ...) and 'network' (eth0, eth1, ...)
#   ## Please note that this setting has no effect if 'perdevice' is set to 'true'
#   # perdevice_include = ["cpu"]
#
#   ## Whether to report for each container total blkio and network stats or not.
#
 ## Usage of this setting is discouraged since it will be deprecated in favor of 'total_include'.
#   ## Default value is 'false' for backwards compatibility, please set it to 'true' so that 'total_include' setting
#   ## is honored.
#   total = false
```

```
#
#   ## Specifies for which classes a total metric should be issued. Total is an aggregated of the 'perdevice' values.
#   ## Possible values are 'cpu', 'blkio' and 'network'
#   ## Total 'cpu' is reported directly by Docker daemon, and 'network' and 'blkio' totals are aggregated by this
plugin.
#   ## Please note that this setting has no effect if 'total' is set to 'false'
#   # total_include = ["cpu", "blkio", "network"]
#
#   ## Which environment variables should we use as a tag
#   ##tag_env = ["JAVA_HOME", "HEAP_SIZE"]
#
#   ## docker labels to include and exclude as tags.  Globs accepted.
#   ## Note that an empty array for both will include all labels as tags
#   docker_label_include = []
#   docker_label_exclude = []
#
#   ## Optional
 TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read statistics from one or many dovecot servers
# [[inputs.dovecot]]
#   ## specify dovecot servers via an address:port list
#   ##  e.g.
#   ##    localhost:24242
#   ##
#   ## If no servers are specified, then localhost is used as the host.
#   servers = ["localhost:24242"]
#
#   ## Type is one of "user", "domain", "ip", or "global"
#   type = "global"
#
#   ## Wildcard matches like "*.com". An empty string "" is same as "*"
#   ## If type = "ip" filters should be <IP/network>
#   filters = [""]


# # Reads metrics from DPDK applications using v2 telemetry interface.
# [[inputs.dpdk]]
#   ## Path to DPDK telemetry socket. This shall point to v2 version of DPDK telemetry interface.
#   # socket_path = "/var/run/dpdk/rte/dpdk_telemetry.v2"
#
#   ## Duration that
```

```
 defines how long the connected socket client will wait for a response before terminating connection.
#   ## This includes both writing to and reading from socket. Since it's local socket access
#   ## to a fast packet processing application, the timeout should be sufficient for most users.
#   ## Setting the value to 0 disables the timeout (not recommended)
#   # socket_access_timeout = "200ms"
#
#   ## Enables telemetry data collection for selected device types.
#   ## Adding "ethdev" enables collection of telemetry from DPDK NICs (stats, xstats, link_status).
#   ## Adding "rawdev" enables collection of telemetry from DPDK Raw Devices (xstats).
#   # device_types = ["ethdev"]
#
#   ## List of custom, application-specific telemetry commands to query
#   ## The list of available commands depend on the application deployed. Applications can register their own
commands
#   ##   via telemetry library API http://doc.dpdk.org/guides/prog_guide/telemetry_lib.html#registering-commands
#   ##
 For e.g. L3 Forwarding with Power Management Sample Application this could be:
#   ##   additional_commands = ["/l3fwd-power/stats"]
#   # additional_commands = []
#
#   ## Allows turning off collecting data for individual "ethdev" commands.
#   ## Remove "/ethdev/link_status" from list to start getting link status metrics.
#   [inputs.dpdk.ethdev]
#     exclude_commands = ["/ethdev/link_status"]
#
#   ## When running multiple instances of the plugin it's recommended to add a unique tag to each instance to
identify
#   ## metrics exposed by an instance of DPDK application. This is useful when multiple DPDK apps run on a
single host.
#   ##  [inputs.dpdk.tags]
#   ##     dpdk_instance = "my-fwd-app"


# # Read metrics about docker containers from Fargate/ECS v2, v3 meta endpoints.
# [[inputs.ecs]]
#   ## ECS metadata url.
#   ## Metadata v2 API is used if set explicitly. Otherwise,
#   ## v3 metadata endpoint API is used if available.
#   # endpoint_url = ""
#
#   ## Containers to include
 and exclude. Globs accepted.
#   ## Note that an empty array for both will include all containers
#   # container_name_include = []
#   # container_name_exclude = []
#
#   ## Container states to include and exclude. Globs accepted.
#   ## When empty only containers in the "RUNNING" state will be captured.
```

```
#   ## Possible values are "NONE", "PULLED", "CREATED", "RUNNING",
#   ## "RESOURCES_PROVISIONED", "STOPPED".
#   # container_status_include = []
#   # container_status_exclude = []
#
#   ## ecs labels to include and exclude as tags.  Globs accepted.
#   ## Note that an empty array for both will include all labels as tags
#   ecs_label_include = [ "com.amazonaws.ecs.*" ]
#   ecs_label_exclude = []
#
#   ## Timeout for queries.
#   # timeout = "5s"


# # Read stats from one or more Elasticsearch servers or clusters
# [[inputs.elasticsearch]]
#   ## specify a list of one or more Elasticsearch servers
#   # you can add username and password to your url to use basic authentication:
#
  # servers = ["http://user:pass@localhost:9200"]
#   servers = ["http://localhost:9200"]
#
#   ## Timeout for HTTP requests to the elastic search server(s)
#   http_timeout = "5s"
#
#   ## When local is true (the default), the node will read only its own stats.
#   ## Set local to false when you want to read the node stats from all nodes
#   ## of the cluster.
#   local = true
#
#   ## Set cluster_health to true when you want to also obtain cluster health stats
#   cluster_health = false
#
#   ## Adjust cluster_health_level when you want to also obtain detailed health stats
#   ## The options are
#   ##  - indices (default)
#   ##  - cluster
#   # cluster_health_level = "indices"
#
#   ## Set cluster_stats to true when you want to also obtain cluster stats.
#   cluster_stats = false
#
#   ## Only gather cluster_stats from the master node. To work this require local = true
#   cluster_stats_only_from_master = true
#
#   ## Indices to collect; can be one or more indices names or _all
#
```

```
  ## Use of wildcards is allowed. Use a wildcard at the end to retrieve index names that end with a changing value, like a date.
#   indices_include = ["_all"]
#
#   ## One of "shards", "cluster", "indices"
#   indices_level = "shards"
#
#   ## node_stats is a list of sub-stats that you want to have gathered. Valid options
#   ## are "indices", "os", "process", "jvm", "thread_pool", "fs", "transport", "http",
#   ## "breaker". Per default, all stats are gathered.
#   # node_stats = ["jvm", "http"]
#
#   ## HTTP Basic Authentication username and password.
#   # username = ""
#   # password = ""
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Sets the number of most recent indices to return for indices that are configured with a date-stamped suffix.
#   ## Each 'indices_include' entry ending with
 a wildcard (*) or glob matching pattern will group together all indices that match it, and sort them
#   ## by the date or number after the wildcard. Metrics then are gathered for only the 'num_most_recent_indices' amount of most recent indices.
#   # num_most_recent_indices = 0


# # Derive metrics from aggregating Elasticsearch query results
# [[inputs.elasticsearch_query]]
#   ## The full HTTP endpoint URL for your Elasticsearch instance
#   ## Multiple urls can be specified as part of the same cluster,
#   ## this means that only ONE of the urls will be written to each interval.
#   urls = [ "http://node1.es.example.com:9200" ] # required.
#
#   ## Elasticsearch client timeout, defaults to "5s".
#   # timeout = "5s"
#
#   ## Set to true to ask Elasticsearch a list of all cluster nodes,
#   ## thus it is not necessary to list all nodes in the urls config option
#   # enable_sniffer = false
#
#   ## Set the interval to check if the Elasticsearch nodes are available
#   ## This option
```

```
 is only used if enable_sniffer is also set (0s to disable it)
#   # health_check_interval = "10s"
#
#   ## HTTP basic authentication details (eg. when using x-pack)
#   # username = "telegraf"
#   # password = "mypassword"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   [[inputs.elasticsearch_query.aggregation]]
#     ## measurement name for the results of the aggregation query
#     measurement_name = "measurement"
#
#     ## Elasticsearch indexes to query (accept wildcards).
#     index = "index-*"
#
#     ## The date/time field in the Elasticsearch index (mandatory).
#     date_field = "@timestamp"
#
#     ## If the field used for the date/time field in Elasticsearch is also using
#     ## a custom date/time format it may be required to provide the format to
#     ## correctly parse the field.
#
    ##
#     ## If using one of the built in elasticsearch formats this is not required.
#     # date_field_custom_format = ""
#
#     ## Time window to query (eg. "1m" to query documents from last minute).
#     ## Normally should be set to same as collection interval
#     query_period = "1m"
#
#     ## Lucene query to filter results
#     # filter_query = "*"
#
#     ## Fields to aggregate values (must be numeric fields)
#     # metric_fields = ["metric"]
#
#     ## Aggregation function to use on the metric fields
#     ## Must be set if 'metric_fields' is set
#     ## Valid values are: avg, sum, min, max, sum
#     # metric_function = "avg"
#
#     ## Fields to be used as tags
```

```
#     ## Must be text, non-analyzed fields. Metric aggregations are performed per tag
#     # tags = ["field.keyword", "field2.keyword"]
#
#     ## Set to true to not ignore documents when the tag(s) above are missing
#     # include_missing_tag = false
#
#     ## String value of the tag when the tag does
 not exist
#     ## Used when include_missing_tag is true
#     # missing_tag_value = "null"


# # Returns ethtool statistics for given interfaces
# [[inputs.ethtool]]
#   ## List of interfaces to pull metrics for
#   # interface_include = ["eth0"]
#
#   ## List of interfaces to ignore when pulling metrics.
#   # interface_exclude = ["eth1"]
#
#   ## Some drivers declare statistics with extra whitespace, different spacing,
#   ## and mix cases. This list, when enabled, can be used to clean the keys.
#   ## Here are the current possible normalizations:
#   ##  * snakecase: converts fooBarBaz to foo_bar_baz
#   ##  * trim: removes leading and trailing whitespace
#   ##  * lower: changes all capitalized letters to lowercase
#   ##  * underscore: replaces spaces with underscores
#   # normalize_keys = ["snakecase", "trim", "lower", "underscore"]


# # Read metrics from one or more commands that can output to stdout
# [[inputs.exec]]
#   ## Commands array
#   commands = [
#     "/tmp/test.sh",
#
    "/usr/bin/mycollector --foo=bar",
#     "/tmp/collect_*.sh"
#   ]
#
#   ## Timeout for each command to complete.
#   timeout = "5s"
#
#   ## measurement name suffix (for separating different commands)
#   name_suffix = "_mycollector"
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
```

```
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"


# # Read metrics from fail2ban.
# [[inputs.fail2ban]]
#   ## Use sudo to run fail2ban-client
#   use_sudo = false


# # Read devices value(s) from a Fibaro controller
# [[inputs.fibaro]]
#   ## Required Fibaro controller address/hostname.
#   ## Note: at the time of writing this plugin, Fibaro only implemented http - no https available
#   url = "http://<controller>:80"
#
#   ## Required credentials to access the API (http://<controller/api/<component>)
#   username = "<username>"
#   password = "<password>"
#
#
  ## Amount of time allowed to complete the HTTP request
#   # timeout = "5s"


# # Parse a complete file each interval
# [[inputs.file]]
#   ## Files to parse each interval.  Accept standard unix glob matching rules,
#   ## as well as ** to match recursive files and directories.
#   files = ["/tmp/metrics.out"]
#
#
#   ## Name a tag containing the name of the file the data was parsed from.  Leave empty
#   ## to disable. Cautious when file name variation is high, this can increase the cardinality
#   ## significantly. Read more about cardinality here:
#   ## https://docs.influxdata.com/influxdb/cloud/reference/glossary/#series-cardinality
#   # file_tag = ""
#   #
#
#   ## Character encoding to use when interpreting the file contents.  Invalid
#   ## characters are replaced using the unicode replacement character.  When set
#   ## to the empty string the data is not decoded to text.
#   ##   ex: character_encoding = "utf-8"
#   ##       character_encoding = "utf-16le"
#
  ##       character_encoding = "utf-16be"
#   ##       character_encoding = ""
```

```
#   # character_encoding = ""
#
#   ## The dataformat to be read from files
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"


# # Count files in a directory
# [[inputs.filecount]]
#   ## Directory to gather stats about.
#   ##   deprecated in 1.9; use the directories option
#   # directory = "/var/cache/apt/archives"
#
#   ## Directories to gather stats about.
#   ## This accept standard unit glob matching rules, but with the addition of
#   ## ** as a "super asterisk". ie:
#   ##   /var/log/**    -> recursively find all directories in /var/log and count files in each directories
#   ##   /var/log/*/*   -> find all directories with a parent dir in /var/log and count files in each directories
#   ##   /var/log       -> count all files in /var/log
 and all of its subdirectories
#   directories = ["/var/cache/apt/archives"]
#
#   ## Only count files that match the name pattern. Defaults to "*".
#   name = "*.deb"
#
#   ## Count files in subdirectories. Defaults to true.
#   recursive = false
#
#   ## Only count regular files. Defaults to true.
#   regular_only = true
#
#   ## Follow all symlinks while walking the directory tree. Defaults to false.
#   follow_symlinks = false
#
#   ## Only count files that are at least this size. If size is
#   ## a negative number, only count files that are smaller than the
#   ## absolute value of size. Acceptable units are B, KiB, MiB, KB, ...
#   ## Without quotes and units, interpreted as size in bytes.
#   size = "0B"
#
#   ## Only count files that have not been touched for at least this
#   ## duration. If mtime is negative, only count files that have been
#   ## touched in this duration. Defaults to "0s".
#   mtime = "0s"
```

```
# # Read stats about given file(s)
# [[inputs.filestat]]
#
  ## Files to gather stats about.
#   ## These accept standard unix glob matching rules, but with the addition of
#   ## ** as a "super asterisk". ie:
#   ##   "/var/log/**.log"  -> recursively find all .log files in /var/log
#   ##   "/var/log/*/*.log" -> find all .log files with a parent dir in /var/log
#   ##   "/var/log/apache.log" -> just tail the apache log file
#   ##
#   ## See https://github.com/gobwas/glob for more examples
#   ##
#   files = ["/var/log/**.log"]
#
#   ## If true, read the entire file and calculate an md5 checksum.
#   md5 = false


# # Read real time temps from fireboard.io servers
# [[inputs.fireboard]]
#   ## Specify auth token for your account
#   auth_token = "invalidAuthToken"
#   ## You can override the fireboard server URL if necessary
#   # url = https://fireboard.io/api/v1/devices.json
#   ## You can set a different http_timeout if you need to
#   ## You should set a string using an number and time indicator
#   ## for example "12s" for 12 seconds.
#
  # http_timeout = "4s"


# # Read metrics exposed by fluentd in_monitor plugin
# [[inputs.fluentd]]
#   ## This plugin reads information exposed by fluentd (using /api/plugins.json endpoint).
#   ##
#   ## Endpoint:
#   ## - only one URI is allowed
#   ## - https is not supported
#   endpoint = "http://localhost:24220/api/plugins.json"
#
#   ## Define which plugins have to be excluded (based on "type" field - e.g. monitor_agent)
#   exclude = [
#     "monitor_agent",
#     "dummy",
#   ]


# # Gather repository information from GitHub hosted repositories.
```

```
# [[inputs.github]]
#   ## List of repositories to monitor.
#   repositories = [
#    "influxdata/telegraf",
#    "influxdata/influxdb"
#   ]
#
#   ## Github API access token.  Unauthenticated requests are limited to 60 per hour.
#   # access_token = ""
#
#   ## Github API enterprise url. Github Enterprise accounts must specify their base url.
#   # enterprise_base_url = ""
#
#   ## Timeout for HTTP requests.
#   # http_timeout = "5s"
#
#
  ## List of additional fields to query.
#  ## NOTE: Getting those fields might involve issuing additional API-calls, so please
#  ##       make sure you do not exceed the rate-limit of GitHub.
#  ##
#  ## Available fields are:
#  ##  - pull-requests   -- number of open and closed pull requests (2 API-calls per repository)
#   # additional_fields = []


# # Read flattened metrics from one or more GrayLog HTTP endpoints
# [[inputs.graylog]]
#   ## API endpoint, currently supported API:
#   ##
#   ##   - multiple  (e.g. http://<host>:9000/api/system/metrics/multiple)
#   ##   - namespace (e.g. http://<host>:9000/api/system/metrics/namespace/{namespace})
#   ##
#   ## For namespace endpoint, the metrics array will be ignored for that call.
#   ## Endpoint can contain namespace and multiple type calls.
#   ##
#   ## Please check http://[graylog-server-ip]:9000/api/api-browser for full list
#   ## of endpoints
#   servers = [
#     "http://[graylog-server-ip]:9000/api/system/metrics/multiple",
#
  ]
#
#   ## Metrics list
#   ## List of metrics can be found on Graylog webservice documentation.
#   ## Or by hitting the web service api at:
#   ##   http://[graylog-host]:9000/api/system/metrics
#   metrics = [
```

```
#     "jvm.cl.loaded",
#     "jvm.memory.pools.Metaspace.committed"
#   ]
#
#   ## Username and password
#   username = ""
#   password = ""
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read metrics of haproxy, via socket or csv stats page
# [[inputs.haproxy]]
#   ## An array of address to gather stats about. Specify an ip on hostname
#   ## with optional port. ie localhost, 10.10.3.33:1936, etc.
#   ## Make sure you specify the complete path to the stats endpoint
#   ## including the protocol, ie http://10.10.3.33:1936/haproxy?stats
#
#   ## If no servers are specified, then
 default to 127.0.0.1:1936/haproxy?stats
#   servers = ["http://myhaproxy.com:1936/haproxy?stats"]
#
#   ## Credentials for basic HTTP authentication
#   # username = "admin"
#   # password = "admin"
#
#   ## You can also use local socket with standard wildcard globbing.
#   ## Server address not starting with 'http' will be treated as a possible
#   ## socket, so both examples below are valid.
#   # servers = ["socket:/run/haproxy/admin.sock", "/run/haproxy/*.sock"]
#
#   ## By default, some of the fields are renamed from what haproxy calls them.
#   ## Setting this option to true results in the plugin keeping the original
#   ## field names.
#   # keep_field_names = false
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
```

```
# # Monitor disks' temperatures using hddtemp
# [[inputs.hddtemp]]
#   ## By default,
 telegraf gathers temps data from all disks detected by the
#   ## hddtemp.
#   ##
#   ## Only collect temps from the selected disks.
#   ##
#   ## A * as the device name will return the temperature values of all disks.
#   ##
#   # address = "127.0.0.1:7634"
#   # devices = ["sda", "*"]


# # Read formatted metrics from one or more HTTP endpoints
# [[inputs.http]]
#   ## One or more URLs from which to read formatted metrics
#   urls = [
#     "http://localhost/metrics"
#   ]
#
#   ## HTTP method
#   # method = "GET"
#
#   ## Optional HTTP headers
#   # headers = {"X-Special-Header" = "Special-Value"}
#
#   ## Optional file with Bearer token
#   ## file content is added as an Authorization header
#   # bearer_token = "/path/to/file"
#
#   ## Optional HTTP Basic Auth Credentials
#   # username = "username"
#   # password = "pa$$word"
#
#   ## HTTP entity-body to send with POST/PUT requests.
#   # body = ""
#
#   ## HTTP Content-Encoding for write request body, can be set to "gzip"
 to
#   ## compress body or "identity" to apply no encoding.
#   # content_encoding = "identity"
#
#   ## HTTP Proxy support
#   # http_proxy_url = ""
#
#   ## OAuth2 Client Credentials Grant
```

```
#   # client_id = "clientid"
#   # client_secret = "secret"
#   # token_url = "https://indentityprovider/oauth2/v1/token"
#   # scopes = ["urn:opc:idm:__myscopes__"]
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Optional Cookie authentication
#   # cookie_auth_url = "https://localhost/authMe"
#   # cookie_auth_method = "POST"
#   # cookie_auth_username = "username"
#   # cookie_auth_password = "pa$$word"
#   # cookie_auth_body = '{"username": "user", "password": "pa$$word", "authenticate": "me"}'
#   ## cookie_auth_renewal not set or set to "0" will auth once and never renew the cookie
#   # cookie_auth_renewal
 = "5m"
#
#   ## Amount of time allowed to complete the HTTP request
#   # timeout = "5s"
#
#   ## List of success status codes
#   # success_status_codes = [200]
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   # data_format = "influx"


# # HTTP/HTTPS request given an address a method and a timeout
# [[inputs.http_response]]
#   ## Deprecated in 1.12, use 'urls'
#   ## Server address (default http://localhost)
#   # address = "http://localhost"
#
#   ## List of urls to query.
#   # urls = ["http://localhost"]
#
#   ## Set http_proxy (telegraf uses the system wide proxy settings if it's is not set)
#   # http_proxy = "http://localhost:8888"
#
#   ## Set response_timeout (default 5 seconds)
```

```
#   # response_timeout = "5s"
#
#   ## HTTP Request Method
#   # method = "GET"
#
#   ## Whether to follow redirects
 from the server (defaults to false)
#   # follow_redirects = false
#
#   ## Optional file with Bearer token
#   ## file content is added as an Authorization header
#   # bearer_token = "/path/to/file"
#
#   ## Optional HTTP Basic Auth Credentials
#   # username = "username"
#   # password = "pa$$word"
#
#   ## Optional HTTP Request Body
#   # body = '''
#   # {'fake':'data'}
#   # '''
#
#   ## Optional name of the field that will contain the body of the response.
#   ## By default it is set to an empty String indicating that the body's content won't be added
#   # response_body_field = ''
#
#   ## Maximum allowed HTTP response body size in bytes.
#   ## 0 means to use the default of 32MiB.
#   ## If the response body size exceeds this limit a "body_read_error" will be raised
#   # response_body_max_size = "32MiB"
#
#   ## Optional substring or regex match in body of the response (case sensitive)
#   # response_string_match = "\"service_status\": \"up\""
#   # response_string_match
 = "ok"
#   # response_string_match = "\".*_status\".?:.?\"up\""
#
#   ## Expected response status code.
#   ## The status code of the response is compared to this value. If they match, the field
#   ## "response_status_code_match" will be 1, otherwise it will be 0. If the
#   ## expected status code is 0, the check is disabled and the field won't be added.
#   # response_status_code = 0
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
```

```
#   # insecure_skip_verify = false
#
#   ## HTTP Request Headers (all values must be strings)
#   # [inputs.http_response.headers]
#   #   Host = "github.com"
#
#   ## Optional setting to map response http headers into tags
#   ## If the http header is not present on the request, no corresponding tag will be added
#   ## If multiple instances of the http header are present, only the first value will be used
#
  # http_header_tags = {"HTTP_HEADER" = "TAG_NAME"}
#
#   ## Interface to use when dialing an address
#   # interface = "eth0"


# # Read flattened metrics from one or more JSON HTTP endpoints
# [[inputs.httpjson]]
#   ## DEPRECATED: The 'httpjson' plugin is deprecated in version 1.6.0, use 'inputs.http' instead.
#   ## NOTE This plugin only reads numerical measurements, strings and booleans
#   ## will be ignored.
#
#   ## Name for the service being polled.  Will be appended to the name of the
#   ## measurement e.g. httpjson_webserver_stats
#   ##
#   ## Deprecated (1.3.0): Use name_override, name_suffix, name_prefix instead.
#   name = "webserver_stats"
#
#   ## URL of each server in the service's cluster
#   servers = [
#     "http://localhost:9999/stats/",
#     "http://localhost:9998/stats/",
#   ]
#   ## Set response_timeout (default 5 seconds)
#   response_timeout = "5s"
#
#   ## HTTP method to use: GET or POST (case-sensitive)
#   method = "GET"
#
#   ## List of tag names to
 extract from top-level of JSON server response
#   # tag_keys = [
#   #   "my_tag_1",
#   #   "my_tag_2"
#   # ]
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
```

```
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## HTTP parameters (all values must be strings).  For "GET" requests, data
#   ## will be included in the query.  For "POST" requests, data will be included
#   ## in the request body as "x-www-form-urlencoded".
#   # [inputs.httpjson.parameters]
#   #   event_type = "cpu_spike"
#   #   threshold = "0.75"
#
#   ## HTTP Headers (all values must be strings)
#   # [inputs.httpjson.headers]
#   #   X-Auth-Token = "my-xauth-token"
#   #   apiVersion = "v1"


# # Gather Icinga2 status
# [[inputs.icinga2]]
#   ## Required Icinga2 server address
#   # server = "https://localhost:5665"
#
#   ## Required Icinga2 object type ("services" or "hosts")
#
  # object_type = "services"
#
#   ## Credentials for basic HTTP authentication
#   # username = "admin"
#   # password = "admin"
#
#   ## Maximum time to receive response.
#   # response_timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = true


# # Gets counters from all InfiniBand cards and ports installed
# [[inputs.infiniband]]
#   # no configuration


# # Read InfluxDB-formatted JSON metrics from one or more HTTP endpoints
```

```
# [[inputs.influxdb]]
#   ## Works with InfluxDB debug endpoints out of the box,
#   ## but other services can use this format too.
#   ## See the influxdb plugin's README for more details.
#
#   ## Multiple URLs from which to read InfluxDB-formatted JSON
#   ## Default is "http://localhost:8086/debug/vars".
#   urls = [
#     "http://localhost:8086/debug/vars"
#   ]
#
#
  ## Username and password to send using HTTP Basic Authentication.
#   # username = ""
#   # password = ""
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## http request & header timeout
#   timeout = "5s"


# # Intel PowerStat plugin enables monitoring of platform metrics (power, TDP) and Core metrics like temperature, power and utilization.
# [[inputs.intel_powerstat]]
#   ## All global metrics are always collected by Intel PowerStat plugin.
#   ## User can choose which per-CPU metrics are monitored by the plugin in cpu_metrics array.
#   ## Empty array means no per-CPU specific metrics will be collected by the plugin - in this case only platform level
#   ## telemetry will be exposed by Intel PowerStat plugin.
#   ## Supported options:
#   ## "cpu_frequency", "cpu_busy_frequency", "cpu_temperature",
 "cpu_c1_state_residency", "cpu_c6_state_residency", "cpu_busy_cycles"
#   # cpu_metrics = []


# # Collect statistics about itself
# [[inputs.internal]]
#   ## If true, collect telegraf memory stats.
#   # collect_memstats = true


# # Monitors internet speed using speedtest.net service
```

```
# [[inputs.internet_speed]]
#   ## Sets if runs file download test
#   ## Default: false
#   enable_file_download = false


# # This plugin gathers interrupts data from /proc/interrupts and /proc/softirqs.
# [[inputs.interrupts]]
#   ## When set to true, cpu metrics are tagged with the cpu.  Otherwise cpu is
#   ## stored as a field.
#   ##
#   ## The default is false for backwards compatibility, and will be changed to
#   ## true in a future version.  It is recommended to set to true on new
#   ## deployments.
#   # cpu_as_tag = false
#
#   ## To filter which IRQs to collect, make use of tagpass / tagdrop, i.e.
#   # [inputs.interrupts.tagdrop]
#   #   irq = [ "NET_RX", "TASKLET" ]


# # Read
 metrics from the bare metal servers via IPMI
# [[inputs.ipmi_sensor]]
#   ## optionally specify the path to the ipmitool executable
#   # path = "/usr/bin/ipmitool"
#   ##
#   ## Setting 'use_sudo' to true will make use of sudo to run ipmitool.
#   ## Sudo must be configured to allow the telegraf user to run ipmitool
#   ## without a password.
#   # use_sudo = false
#   ##
#   ## optionally force session privilege level. Can be CALLBACK, USER, OPERATOR, ADMINISTRATOR
#   # privilege = "ADMINISTRATOR"
#   ##
#   ## optionally specify one or more servers via a url matching
#   ##  [username[:password]@][protocol[(address)]]
#   ##  e.g.
#   ##    root:passwd@lan(127.0.0.1)
#   ##
#   ## if no servers are specified, local machine sensor stats will be queried
#   ##
#   # servers = ["USERID:PASSW0RD@lan(192.168.1.1)"]
#
#   ## Recommended: use metric 'interval' that is a multiple of 'timeout' to avoid
#   ## gaps or overlap in pulled data
#   interval = "30s"
#
```

```
#   ## Timeout for the ipmitool
 command to complete
#   timeout = "20s"
#
#   ## Schema Version: (Optional, defaults to version 1)
#   metric_version = 2
#
#   ## Optionally provide the hex key for the IMPI connection.
#   # hex_key = ""
#
#   ## If ipmitool should use a cache
#   ## for me ipmitool runs about 2 to 10 times faster with cache enabled on HP G10 servers (when using
ubuntu20.04)
#   ## the cache file may not work well for you if some sensors come up late
#   # use_cache = false
#
#   ## Path to the ipmitools cache file (defaults to OS temp dir)
#   ## The provided path must exist and must be writable
#   # cache_path = ""


# # Gather packets and bytes counters from Linux ipsets
# [[inputs.ipset]]
#   ## By default, we only show sets which have already matched at least 1 packet.
#   ## set include_unmatched_sets = true to gather them all.
#   include_unmatched_sets = false
#   ## Adjust your sudo settings appropriately if using this option ("sudo ipset save")
#   use_sudo = false
#   ## The default timeout
 of 1s for ipset execution can be overridden here:
#   # timeout = "1s"


# # Gather packets and bytes throughput from iptables
# [[inputs.iptables]]
#   ## iptables require root access on most systems.
#   ## Setting 'use_sudo' to true will make use of sudo to run iptables.
#   ## Users must configure sudo to allow telegraf user to run iptables with no password.
#   ## iptables can be restricted to only list command "iptables -nvL".
#   use_sudo = false
#   ## Setting 'use_lock' to true runs iptables with the "-w" option.
#   ## Adjust your sudo settings appropriately if using this option ("iptables -w 5 -nvl")
#   use_lock = false
#   ## Define an alternate executable, such as "ip6tables". Default is "iptables".
#   # binary = "ip6tables"
#   ## defines the table to monitor:
#   table = "filter"
#   ## defines the chains to monitor.
```

```
#   ## NOTE: iptables rules without a comment will not be monitored.
#   ## Read the plugin documentation for more information.
#   chains = [ "INPUT"
 ]


# # Collect virtual and real server stats from Linux IPVS
# [[inputs.ipvs]]
#   # no configuration


# # Read jobs and cluster metrics from Jenkins instances
# [[inputs.jenkins]]
#   ## The Jenkins URL in the format "schema://host:port"
#   url = "http://my-jenkins-instance:8080"
#   # username = "admin"
#   # password = "admin"
#
#   ## Set response_timeout
#   response_timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use SSL but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Optional Max Job Build Age filter
#   ## Default 1 hour, ignore builds older than max_build_age
#   # max_build_age = "1h"
#
#   ## Optional Sub Job Depth filter
#   ## Jenkins can have unlimited layer of sub jobs
#   ## This config will limit the layers of pulling, default value 0 means
#   ## unlimited pulling until no more sub jobs
#   # max_subjob_depth
 = 0
#
#   ## Optional Sub Job Per Layer
#   ## In workflow-multibranch-plugin, each branch will be created as a sub job.
#   ## This config will limit to call only the lasted branches in each layer,
#   ## empty will use default value 10
#   # max_subjob_per_layer = 10
#
#   ## Jobs to include or exclude from gathering
#   ## When using both lists, job_exclude has priority.
#   ## Wildcards are supported: [ "jobA/*", "jobB/subjob1/*"]
```

```
#   # job_include = [ "*" ]
#   # job_exclude = [ ]
#
#   ## Nodes to include or exclude from gathering
#   ## When using both lists, node_exclude has priority.
#   # node_include = [ "*" ]
#   # node_exclude = [ ]
#
#   ## Worker pool for jenkins plugin only
#   ## Empty this field will use default value 5
#   # max_connections = 5


# # Read JMX metrics through Jolokia
# [[inputs.jolokia]]
#   ## DEPRECATED: The 'jolokia' plugin is deprecated in version 1.5.0, use 'inputs.jolokia2' instead.
#   # DEPRECATED: the jolokia plugin has been deprecated in favor
 of the
#   # jolokia2 plugin
#   # see https://github.com/influxdata/telegraf/tree/master/plugins/inputs/jolokia2
#
#   ## This is the context root used to compose the jolokia url
#   ## NOTE that Jolokia requires a trailing slash at the end of the context root
#   ## NOTE that your jolokia security policy must allow for POST requests.
#   context = "/jolokia/"
#
#   ## This specifies the mode used
#   # mode = "proxy"
#   #
#   ## When in proxy mode this section is used to specify further
#   ## proxy address configurations.
#   ## Remember to change host address to fit your environment.
#   # [inputs.jolokia.proxy]
#   #   host = "127.0.0.1"
#   #   port = "8080"
#
#   ## Optional http timeouts
#   ##
#   ## response_header_timeout, if non-zero, specifies the amount of time to wait
#   ## for a server's response headers after fully writing the request.
#   # response_header_timeout = "3s"
#   ##
#   ## client_timeout specifies a time limit for requests made by this client.
#   ##
 Includes connection time, any redirects, and reading the response body.
#   # client_timeout = "4s"
#
#   ## Attribute delimiter
```

```
#   ##
#   ## When multiple attributes are returned for a single
#   ## [inputs.jolokia.metrics], the field name is a concatenation of the metric
#   ## name, and the attribute name, separated by the given delimiter.
#   # delimiter = "_"
#
#   ## List of servers exposing jolokia read service
#   [[inputs.jolokia.servers]]
#     name = "as-server-01"
#     host = "127.0.0.1"
#     port = "8080"
#     # username = "myuser"
#     # password = "mypassword"
#
#   ## List of metrics collected on above servers
#   ## Each metric consists in a name, a jmx path and either
#   ## a pass or drop slice attribute.
#   ## This collect all heap memory usage metrics.
#   [[inputs.jolokia.metrics]]
#     name = "heap_memory_usage"
#     mbean  = "java.lang:type=Memory"
#     attribute = "HeapMemoryUsage"
#
#   ## This collect thread counts metrics.
#   [[inputs.jolokia.metrics]]
#
    name = "thread_count"
#     mbean  = "java.lang:type=Threading"
#     attribute = "TotalStartedThreadCount,ThreadCount,DaemonThreadCount,PeakThreadCount"
#
#   ## This collect number of class loaded/unloaded counts metrics.
#   [[inputs.jolokia.metrics]]
#     name = "class_count"
#     mbean  = "java.lang:type=ClassLoading"
#     attribute = "LoadedClassCount,UnloadedClassCount,TotalLoadedClassCount"


# # Read JMX metrics from a Jolokia REST agent endpoint
# [[inputs.jolokia2_agent]]
#   # default_tag_prefix      = ""
#   # default_field_prefix    = ""
#   # default_field_separator = "."
#
#   # Add agents URLs to query
#   urls = ["http://localhost:8080/jolokia"]
#   # username = ""
#   # password = ""
#   # response_timeout = "5s"
```

```
#
#   ## Optional TLS config
#   # tls_ca   = "/var/private/ca.pem"
#   # tls_cert = "/var/private/client.pem"
#   # tls_key  = "/var/private/client-key.pem"
#   # insecure_skip_verify = false
#
#   ## Add metrics to read
#   [[inputs.jolokia2_agent.metric]]
#
    name  = "java_runtime"
#     mbean = "java.lang:type=Runtime"
#     paths = ["Uptime"]


# # Read JMX metrics from a Jolokia REST proxy endpoint
# [[inputs.jolokia2_proxy]]
#   # default_tag_prefix      = ""
#   # default_field_prefix    = ""
#   # default_field_separator = "."
#
#   ## Proxy agent
#   url = "http://localhost:8080/jolokia"
#   # username = ""
#   # password = ""
#   # response_timeout = "5s"
#
#   ## Optional TLS config
#   # tls_ca   = "/var/private/ca.pem"
#   # tls_cert = "/var/private/client.pem"
#   # tls_key  = "/var/private/client-key.pem"
#   # insecure_skip_verify = false
#
#   ## Add proxy targets to query
#   # default_target_username = ""
#   # default_target_password = ""
#   [[inputs.jolokia2_proxy.target]]
#     url = "service:jmx:rmi:///jndi/rmi://targethost:9999/jmxrmi"
#     # username = ""
#     # password = ""
#
#   ## Add metrics to read
#   [[inputs.jolokia2_proxy.metric]]
#     name  = "java_runtime"
#     mbean = "java.lang:type=Runtime"
#
    paths = ["Uptime"]
```

```
# # Read Kapacitor-formatted JSON metrics from one or more HTTP endpoints
# [[inputs.kapacitor]]
#   ## Multiple URLs from which to read Kapacitor-formatted JSON
#   ## Default is "http://localhost:9092/kapacitor/v1/debug/vars".
#   urls = [
#     "http://localhost:9092/kapacitor/v1/debug/vars"
#   ]
#
#   ## Time limit for http requests
#   timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Get kernel statistics from /proc/vmstat
# [[inputs.kernel_vmstat]]
#   # no configuration


# # Read status information from one or more Kibana servers
# [[inputs.kibana]]
#   ## Specify a list of one or more Kibana servers
#   servers = ["http://localhost:5601"]
#
#   ## Timeout for HTTP requests
#   timeout = "5s"
#
#   ## HTTP Basic Auth credentials
#   #
 username = "username"
#   # password = "pa$$word"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read metrics from the Kubernetes api
# [[inputs.kube_inventory]]
```

```
#   ## URL for the Kubernetes API
#   url = "https://127.0.0.1"
#
#   ## Namespace to use. Set to "" to use all namespaces.
#   # namespace = "default"
#
#   ## Use bearer token for authorization. ('bearer_token' takes priority)
#   ## If both of these are empty, we'll use the default serviceaccount:
#   ## at: /run/secrets/kubernetes.io/serviceaccount/token
#   # bearer_token = "/path/to/bearer/token"
#   ## OR
#   # bearer_token_string = "abc_123"
#
#   ## Set response_timeout (default 5 seconds)
#   # response_timeout = "5s"
#
#   ## Optional Resources to exclude from gathering
#   ## Leave them with blank with try to gather everything
 available.
#   ## Values can be - "daemonsets", deployments", "endpoints", "ingress", "nodes",
#   ## "persistentvolumes", "persistentvolumeclaims", "pods", "services", "statefulsets"
#   # resource_exclude = [ "deployments", "nodes", "statefulsets" ]
#
#   ## Optional Resources to include when gathering
#   ## Overrides resource_exclude if both set.
#   # resource_include = [ "deployments", "nodes", "statefulsets" ]
#
#   ## selectors to include and exclude as tags.  Globs accepted.
#   ## Note that an empty array for both will include all selectors as tags
#   ## selector_exclude overrides selector_include if both set.
#   # selector_include = []
#   # selector_exclude = ["*"]
#
#   ## Optional TLS Config
#   # tls_ca = "/path/to/cafile"
#   # tls_cert = "/path/to/certfile"
#   # tls_key = "/path/to/keyfile"
#   # tls_server_name = "kubernetes.example.com"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read metrics from the kubernetes kubelet
 api
# [[inputs.kubernetes]]
#   ## URL for the kubelet
#   url = "http://127.0.0.1:10255"
#
```

```
#   ## Use bearer token for authorization. ('bearer_token' takes priority)
#   ## If both of these are empty, we'll use the default serviceaccount:
#   ## at: /run/secrets/kubernetes.io/serviceaccount/token
#   # bearer_token = "/path/to/bearer/token"
#   ## OR
#   # bearer_token_string = "abc_123"
#
#   ## Pod labels to be added as tags.  An empty array for both include and
#   ## exclude will include all labels.
#   # label_include = []
#   # label_exclude = ["*"]
#
#   ## Set response_timeout (default 5 seconds)
#   # response_timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = /path/to/cafile
#   # tls_cert = /path/to/certfile
#   # tls_key = /path/to/keyfile
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read metrics from a LeoFS Server via SNMP
# [[inputs.leofs]]
#   ## An array of URLs of the form:
#   ##   host [ ":" port]
#   servers
 = ["127.0.0.1:4020"]


# # Provides Linux sysctl fs metrics
# [[inputs.linux_sysctl_fs]]
#   # no configuration


# # Read metrics exposed by Logstash
# [[inputs.logstash]]
#   ## The URL of the exposed Logstash API endpoint.
#   url = "http://127.0.0.1:9600"
#
#   ## Use Logstash 5 single pipeline API, set to true when monitoring
#   ## Logstash 5.
#   # single_pipeline = false
#
#   ## Enable optional collection components.  Can contain
#   ## "pipelines", "process", and "jvm".
#   # collect = ["pipelines", "process", "jvm"]
```

```
#
#   ## Timeout for HTTP requests.
#   # timeout = "5s"
#
#   ## Optional HTTP Basic Auth credentials.
#   # username = "username"
#   # password = "pa$$word"
#
#   ## Optional TLS Config.
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
#   ## Use TLS but skip chain & host verification.
#   # insecure_skip_verify = false
#
#   ## Optional HTTP headers.
#   # [inputs.logstash.headers]
#
  #   "X-Special-Header" = "Special-Value"


# # Read metrics from local Lustre service on OST, MDS
# [[inputs.lustre2]]
#   ## An array of /proc globs to search for Lustre stats
#   ## If not specified, the default will work on Lustre 2.5.x
#   ##
#   # ost_procfiles = [
#   #   "/proc/fs/lustre/obdfilter/*/stats",
#   #   "/proc/fs/lustre/osd-ldiskfs/*/stats",
#   #   "/proc/fs/lustre/obdfilter/*/job_stats",
#   # ]
#   # mds_procfiles = [
#   #   "/proc/fs/lustre/mdt/*/md_stats",
#   #   "/proc/fs/lustre/mdt/*/job_stats",
#   # ]


# # Read metrics about LVM physical volumes, volume groups, logical volumes.
# [[inputs.lvm]]
# ## Use sudo to run LVM commands
# use_sudo = false


# # Gathers metrics from the /3.0/reports MailChimp API
# [[inputs.mailchimp]]
#   ## MailChimp API key
#   ## get from https://admin.mailchimp.com/account/api/
```

```
#   api_key = "" # required
#   ## Reports for campaigns sent more than days_old ago will not be collected.
#   ## 0 means collect all.
#   days_old
 = 0
#   ## Campaign ID to get, if empty gets all campaigns, this option overrides days_old
#   # campaign_id = ""


# # Retrieves information on a specific host in a MarkLogic Cluster
# [[inputs.marklogic]]
#   ## Base URL of the MarkLogic HTTP Server.
#   url = "http://localhost:8002"
#
#   ## List of specific hostnames to retrieve information. At least (1) required.
#   # hosts = ["hostname1", "hostname2"]
#
#   ## Using HTTP Basic Authentication. Management API requires 'manage-user' role privileges
#   # username = "myuser"
#   # password = "mypassword"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read metrics from one or many mcrouter servers
# [[inputs.mcrouter]]
#   ## An array of address to gather stats about. Specify an ip or hostname
#   ## with port. ie tcp://localhost:11211, tcp://10.0.0.1:11211,
 etc.
#  servers = ["tcp://localhost:11211", "unix:///var/run/mcrouter.sock"]
#
#  ## Timeout for metric collections from all servers.  Minimum timeout is "1s".
#   # timeout = "5s"


# # Get md array statistics from /proc/mdstat
# [[inputs.mdstat]]
#  ## Sets file path
#  ## If not specified, then default is /proc/mdstat
#  # file_name = "/proc/mdstat"


# # Read metrics from one or many memcached servers
```

```
# [[inputs.memcached]]
#   ## An array of address to gather stats about. Specify an ip on hostname
#   ## with optional port. ie localhost, 10.0.0.1:11211, etc.
#   servers = ["localhost:11211"]
#   # unix_sockets = ["/var/run/memcached.sock"]


# # Telegraf plugin for gathering metrics from N Mesos masters
# [[inputs.mesos]]
#   ## Timeout, in ms.
#   timeout = 100
#
#   ## A list of Mesos masters.
#   masters = ["http://localhost:5050"]
#
#   ## Master metrics groups to be collected, by default, all enabled.
#   master_collections = [
#     "resources",
#     "master",
#
    "system",
#     "agents",
#     "frameworks",
#     "framework_offers",
#     "tasks",
#     "messages",
#     "evqueue",
#     "registrar",
#     "allocator",
#   ]
#
#   ## A list of Mesos slaves, default is []
#   # slaves = []
#
#   ## Slave metrics groups to be collected, by default, all enabled.
#   # slave_collections = [
#   #   "resources",
#   #   "agent",
#   #   "system",
#   #   "executors",
#   #   "tasks",
#   #   "messages",
#   # ]
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
```

```
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Collects scores from a Minecraft server's scoreboard using the RCON protocol
# [[inputs.minecraft]]
#   ## Address of the Minecraft server.
#   # server = "localhost"
#
#   ## Server RCON Port.
#   # port = "25575"
#
#   ## Server RCON Password.
#   password = ""
#
#   ## Uncomment to remove deprecated
 metric components.
#   # tagdrop = ["server"]


# # Retrieve data from MODBUS slave devices
# [[inputs.modbus]]
#   ## Connection Configuration
#   ##
#   ## The plugin supports connections to PLCs via MODBUS/TCP, RTU over TCP, ASCII over TCP or
#   ## via serial line communication in binary (RTU) or readable (ASCII) encoding
#   ##
#   ## Device name
#   name = "Device"
#
#   ## Slave ID - addresses a MODBUS device on the bus
#   ## Range: 0 - 255 [0 = broadcast; 248 - 255 = reserved]
#   slave_id = 1
#
#   ## Timeout for each request
#   timeout = "1s"
#
#   ## Maximum number of retries and the time to wait between retries
#   ## when a slave-device is busy.
#   # busy_retries = 0
#   # busy_retries_wait = "100ms"
#
#   # TCP - connect via Modbus/TCP
#   controller = "tcp://localhost:502"
#
#   ## Serial (RS485; RS232)
#   # controller = "file:///dev/ttyUSB0"
#   # baud_rate = 9600
```

```
#   # data_bits = 8
#   # parity = "N"
#   # stop_bits = 1
#   # transmission_mode = "RTU"
#
#
 ## Trace the connection to the modbus device as debug messages
#   ## Note: You have to enable telegraf's debug mode to see those messages!
#   # debug_connection = false
#
#   ## For Modbus over TCP you can choose between "TCP", "RTUoverTCP" and "ASCIIoverTCP"
#   ## default behaviour is "TCP" if the controller is TCP
#   ## For Serial you can choose between "RTU" and "ASCII"
#   # transmission_mode = "RTU"
#
#   ## Measurements
#   ##
#
#   ## Digital Variables, Discrete Inputs and Coils
#   ## measurement - the (optional) measurement name, defaults to "modbus"
#   ## name        - the variable name
#   ## address     - variable address
#
#   discrete_inputs = [
#     { name = "start",          address = [0]},
#     { name = "stop",           address = [1]},
#     { name = "reset",          address = [2]},
#     { name = "emergency_stop", address = [3]},
#   ]
#   coils = [
#     { name = "motor1_run",     address = [0]},
#     { name = "motor1_jog",     address = [1]},
#     { name
 = "motor1_stop",    address = [2]},
#   ]
#
#   ## Analog Variables, Input Registers and Holding Registers
#   ## measurement - the (optional) measurement name, defaults to "modbus"
#   ## name        - the variable name
#   ## byte_order  - the ordering of bytes
#   ##  |---AB, ABCD   - Big Endian
#   ##  |---BA, DCBA   - Little Endian
#   ##  |---BADC       - Mid-Big Endian
#   ##  |---CDAB       - Mid-Little Endian
#   ## data_type  - INT16, UINT16, INT32, UINT32, INT64, UINT64,
#   ##              FLOAT32-IEEE, FLOAT64-IEEE (the IEEE 754 binary representation)
#   ##              FLOAT32, FIXED, UFIXED (fixed-point representation on input)
#   ## scale      - the final numeric variable representation
```

```
#   ## address    - variable address
#
#   holding_registers = [
#     { name = "power_factor", byte_order = "AB",   data_type = "FIXED", scale=0.01,  address = [8]},
#     { name = "voltage",      byte_order = "AB",   data_type = "FIXED", scale=0.1,   address = [0]},
#     { name = "energy",
      byte_order = "ABCD", data_type = "FIXED", scale=0.001, address = [5,6]},
#     { name = "current",      byte_order = "ABCD", data_type = "FIXED", scale=0.001, address = [1,2]},
#     { name = "frequency",    byte_order = "AB",   data_type = "UFIXED", scale=0.1,  address = [7]},
#     { name = "power",        byte_order = "ABCD", data_type = "UFIXED", scale=0.1,  address = [3,4]},
#   ]
#   input_registers = [
#     { name = "tank_level",   byte_order = "AB",   data_type = "INT16",   scale=1.0,     address = [0]},
#     { name = "tank_ph",      byte_order = "AB",   data_type = "INT16",   scale=1.0,     address = [1]},
#     { name = "pump1_speed",  byte_order = "ABCD", data_type = "INT32",   scale=1.0,     address = [3,4]},
#   ]
#
#   ## Enable workarounds required by some devices to work correctly
#   # [inputs.modbus.workarounds]
#     ## Pause between read requests sent to the device. This might be necessary for (slow) serial devices.
#     # pause_between_requests = "0ms"
#
    ## Close the connection after every gather cycle. Usually the plugin closes the connection after a certain
#     ## idle-timeout, however, if you query a device with limited simultaneous connectivity (e.g. serial devices)
#     ## from multiple instances you might want to only stay connected during gather and disconnect afterwards.
#     # close_connection_after_gather = false


# # Read metrics from one or many MongoDB servers
# [[inputs.mongodb]]
#   ## An array of URLs of the form:
#   ##   "mongodb://" [user ":" pass "@"] host [ ":" port]
#   ## For example:
#   ##   mongodb://user:auth_key@10.10.3.30:27017,
#   ##   mongodb://10.10.3.33:18832,
#   servers = ["mongodb://127.0.0.1:27017?connect=direct"]
#
#   ## When true, collect cluster status
#   ## Note that the query that counts jumbo chunks triggers a COLLSCAN, which
#   ## may have an impact on performance.
#   # gather_cluster_status = true
#
#   ## When true, collect per database stats
#   # gather_perdb_stats =
 false
#
#   ## When true, collect per collection stats
#   # gather_col_stats = false
```

```
#
#   ## When true, collect usage statistics for each collection
#   ## (insert, update, queries, remove, getmore, commands etc...).
#   # gather_top_stat = false
#
#   ## List of db where collections stats are collected
#   ## If empty, all db are concerned
#   # col_stats_dbs = ["local"]
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read metrics and status information about processes managed by Monit
# [[inputs.monit]]
#   ## Monit HTTPD address
#   address = "http://127.0.0.1:2812"
#
#   ## Username and Password for Monit
#   # username = ""
#   # password = ""
#
#   ## Amount of time allowed to complete the HTTP request
#   # timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#
  # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Aggregates the contents of multiple files into a single point
# [[inputs.multifile]]
#   ## Base directory where telegraf will look for files.
#   ## Omit this option to use absolute paths.
#   base_dir = "/sys/bus/i2c/devices/1-0076/iio:device0"
#
#   ## If true, Telegraf discard all data when a single file can't be read.
#   ## Else, Telegraf omits the field generated from this file.
#   # fail_early = true
#
```

```
#   ## Files to parse each interval.
#   [[inputs.multifile.file]]
#     file = "in_pressure_input"
#     dest = "pressure"
#     conversion = "float"
#   [[inputs.multifile.file]]
#     file = "in_temp_input"
#     dest = "temperature"
#     conversion = "float(3)"
#   [[inputs.multifile.file]]
#     file = "in_humidityrelative_input"
#     dest = "humidityrelative"
#     conversion = "float(3)"


# # Read metrics
 from one or many mysql servers
# [[inputs.mysql]]
#   ## specify servers via a url matching:
#   ##  [username[:password]@][protocol[(address)]]/[?tls=[true|false|skip-verify|custom]]
#   ##  see https://github.com/go-sql-driver/mysql#dsn-data-source-name
#   ##  e.g.
#   ##    servers = ["user:passwd@tcp(127.0.0.1:3306)/?tls=false"]
#   ##    servers = ["user@tcp(127.0.0.1:3306)/?tls=false"]
#   #
#   ## If no servers are specified, then localhost is used as the host.
#   servers = ["tcp(127.0.0.1:3306)/"]
#
#   ## Selects the metric output format.
#   ##
#   ## This option exists to maintain backwards compatibility, if you have
#   ## existing metrics do not set or change this value until you are ready to
#   ## migrate to the new format.
#   ##
#   ## If you do not have existing metrics from this plugin set to the latest
#   ## version.
#   ##
#   ## Telegraf >=1.6: metric_version = 2
#   ##           <1.6: metric_version = 1 (or unset)
#   metric_version = 2
#
#   ## if the
 list is empty, then metrics are gathered from all database tables
#   # table_schema_databases = []
#
#   ## gather metrics from INFORMATION_SCHEMA.TABLES for databases provided above list
#   # gather_table_schema = false
#
```

```
#   ## gather thread state counts from INFORMATION_SCHEMA.PROCESSLIST
#   # gather_process_list = false
#
#   ## gather user statistics from INFORMATION_SCHEMA.USER_STATISTICS
#   # gather_user_statistics = false
#
#   ## gather auto_increment columns and max values from information schema
#   # gather_info_schema_auto_inc = false
#
#   ## gather metrics from INFORMATION_SCHEMA.INNODB_METRICS
#   # gather_innodb_metrics = false
#
#   ## gather metrics from SHOW SLAVE STATUS command output
#   # gather_slave_status = false
#
#   ## gather metrics from all channels from SHOW SLAVE STATUS command output
#   # gather_all_slave_channels = false
#
#   ## use MariaDB dialect for all channels SHOW SLAVE STATUS
#   # mariadb_dialect = false
#
#   ## gather metrics from SHOW
 BINARY LOGS command output
#   # gather_binary_logs = false
#
#   ## gather metrics from PERFORMANCE_SCHEMA.GLOBAL_VARIABLES
#   # gather_global_variables = true
#
#   ## gather metrics from PERFORMANCE_SCHEMA.TABLE_IO_WAITS_SUMMARY_BY_TABLE
#   # gather_table_io_waits = false
#
#   ## gather metrics from PERFORMANCE_SCHEMA.TABLE_LOCK_WAITS
#   # gather_table_lock_waits = false
#
#   ## gather metrics from PERFORMANCE_SCHEMA.TABLE_IO_WAITS_SUMMARY_BY_INDEX_USAGE
#   # gather_index_io_waits = false
#
#   ## gather metrics from PERFORMANCE_SCHEMA.EVENT_WAITS
#   # gather_event_waits = false
#
#   ## gather metrics from PERFORMANCE_SCHEMA.FILE_SUMMARY_BY_EVENT_NAME
#   # gather_file_events_stats = false
#
#   ## gather metrics from PERFORMANCE_SCHEMA.EVENTS_STATEMENTS_SUMMARY_BY_DIGEST
#   # gather_perf_events_statements = false
#
#   ## the limits for metrics form perf_events_statements
#   # perf_events_statements_digest_text_limit = 120
```

```
#   # perf_events_statements_limit = 250
#   # perf_events_statements_time_limit
 = 86400
#
#   ## gather metrics from
PERFORMANCE_SCHEMA.EVENTS_STATEMENTS_SUMMARY_BY_ACCOUNT_BY_EVENT_NAME
#   # gather_perf_sum_per_acc_per_event         = false
#
#   ## list of events to be gathered for gather_perf_sum_per_acc_per_event
#   ## in case of empty list all events will be gathered
#   # perf_summary_events                       = []
#
#   ## Some queries we may want to run less often (such as SHOW GLOBAL VARIABLES)
#   ##   example: interval_slow = "30m"
#   # interval_slow = ""
#
#   ## Optional TLS Config (will be used if tls=custom parameter specified in server uri)
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Provides metrics about the state of a NATS server
# [[inputs.nats]]
#   ## The address of the monitoring endpoint of the NATS server
#   server = "http://localhost:8222"
#
#
  ## Maximum time to receive response
#   # response_timeout = "5s"


# # Neptune Apex data collector
# [[inputs.neptune_apex]]
#   ## The Neptune Apex plugin reads the publicly available status.xml data from a local Apex.
#   ## Measurements will be logged under "apex".
#
#   ## The base URL of the local Apex(es). If you specify more than one server, they will
#   ## be differentiated by the "source" tag.
#   servers = [
#     "http://apex.local",
#   ]
#
#   ## The response_timeout specifies how long to wait for a reply from the Apex.
#   #response_timeout = "5s"
```

```
# # Read metrics about network interface usage
# [[inputs.net]]
#   ## By default, telegraf gathers stats from any up interface (excluding loopback)
#   ## Setting interfaces will tell it to gather these explicit interfaces,
#   ## regardless of status.
#   ##
#   # interfaces = ["eth0"]
#   ##
#   ## On linux systems telegraf also collects protocol stats.
#   ## Setting ignore_protocol_stats to true will skip reporting
 of protocol metrics.
#   ##
#   # ignore_protocol_stats = false
#   ##


# # Collect response time of a TCP or UDP connection
# [[inputs.net_response]]
#   ## Protocol, must be "tcp" or "udp"
#   ## NOTE: because the "udp" protocol does not respond to requests, it requires
#   ## a send/expect string pair (see below).
#   protocol = "tcp"
#   ## Server address (default localhost)
#   address = "localhost:80"
#
#   ## Set timeout
#   # timeout = "1s"
#
#   ## Set read timeout (only used if expecting a response)
#   # read_timeout = "1s"
#
#   ## The following options are required for UDP checks. For TCP, they are
#   ## optional. The plugin will send the given string to the server and then
#   ## expect to receive the given 'expect' string back.
#   ## string sent to the server
#   # send = "ssh"
#   ## expected string in answer
#   # expect = "ssh"
#
#   ## Uncomment to remove deprecated fields
#   # fielddrop = ["result_type", "string_found"]


# # Read TCP metrics such as established,
 time wait and sockets counts.
# [[inputs.netstat]]
#   # no configuration
```

```
# # Read per-mount NFS client metrics from /proc/self/mountstats
# [[inputs.nfsclient]]
#   ## Read more low-level metrics (optional, defaults to false)
#   # fullstat = false
#
#   ## List of mounts to explictly include or exclude (optional)
#   ## The pattern (Go regexp) is matched against the mount point (not the
#   ## device being mounted).  If include_mounts is set, all mounts are ignored
#   ## unless present in the list. If a mount is listed in both include_mounts
#   ## and exclude_mounts, it is excluded.  Go regexp patterns can be used.
#   # include_mounts = []
#   # exclude_mounts = []
#
#   ## List of operations to include or exclude from collecting.  This applies
#   ## only when fullstat=true.  Symantics are similar to {include,exclude}_mounts:
#   ## the default is to collect everything; when include_operations is set, only
#   ## those OPs are collected; when exclude_operations is set,
 all are collected
#   ## except those listed.  If include and exclude are set, the OP is excluded.
#   ## See /proc/self/mountstats for a list of valid operations; note that
#   ## NFSv3 and NFSv4 have different lists.  While it is not possible to
#   ## have different include/exclude lists for NFSv3/4, unused elements
#   ## in the list should be okay.  It is possible to have different lists
#   ## for different mountpoints:  use mulitple [[input.nfsclient]] stanzas,
#   ## with their own lists.  See "include_mounts" above, and be careful of
#   ## duplicate metrics.
#   # include_operations = []
#   # exclude_operations = []


# # Read Nginx's basic status information (ngx_http_stub_status_module)
# [[inputs.nginx]]
#   # An array of Nginx stub_status URI to gather stats.
#   urls = ["http://localhost/server_status"]
#
#   ## Optional TLS Config
#   tls_ca = "/etc/telegraf/ca.pem"
#   tls_cert = "/etc/telegraf/cert.cer"
#   tls_key = "/etc/telegraf/key.key"
#   ## Use TLS but skip chain
 & host verification
#   insecure_skip_verify = false
#
#   # HTTP response timeout (default: 5s)
#   response_timeout = "5s"
```

```
# # Read Nginx Plus' full status information (ngx_http_status_module)
# [[inputs.nginx_plus]]
#   ## An array of ngx_http_status_module or status URI to gather stats.
#   urls = ["http://localhost/status"]
#
#   # HTTP response timeout (default: 5s)
#   response_timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read Nginx Plus Api documentation
# [[inputs.nginx_plus_api]]
#   ## An array of API URI to gather stats.
#   urls = ["http://localhost/api"]
#
#   # Nginx API version, default: 3
#   # api_version = 3
#
#   # HTTP response timeout (default: 5s)
#   response_timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert
 = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read Nginx virtual host traffic status module information (nginx-module-sts)
# [[inputs.nginx_sts]]
#   ## An array of ngx_http_status_module or status URI to gather stats.
#   urls = ["http://localhost/status"]
#
#   ## HTTP response timeout (default: 5s)
#   response_timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
```

```
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read nginx_upstream_check module status information
(https://github.com/yaoweibin/nginx_upstream_check_module)
# [[inputs.nginx_upstream_check]]
#   ## An URL where Nginx Upstream check module is enabled
#   ## It should be set to return a JSON formatted response
#   url = "http://127.0.0.1/status?format=json"
#
#
  ## HTTP method
#   # method = "GET"
#
#   ## Optional HTTP headers
#   # headers = {"X-Special-Header" = "Special-Value"}
#
#   ## Override HTTP "Host" header
#   # host_header = "check.example.com"
#
#   ## Timeout for HTTP requests
#   timeout = "5s"
#
#   ## Optional HTTP Basic Auth credentials
#   # username = "username"
#   # password = "pa$$word"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read Nginx virtual host traffic status module information (nginx-module-vts)
# [[inputs.nginx_vts]]
#   ## An array of ngx_http_status_module or status URI to gather stats.
#   urls = ["http://localhost/status"]
#
#   ## HTTP response timeout (default: 5s)
#   response_timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
```

```
#
 # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # A plugin to collect stats from the NSD authoritative DNS name server
# [[inputs.nsd]]
#   ## Address of server to connect to, optionally ':port'. Defaults to the
#   ## address in the nsd config file.
#   server = "127.0.0.1:8953"
#
#   ## If running as a restricted user you can prepend sudo for additional access:
#   # use_sudo = false
#
#   ## The default location of the nsd-control binary can be overridden with:
#   # binary = "/usr/sbin/nsd-control"
#
#   ## The default location of the nsd config file can be overridden with:
#   # config_file = "/etc/nsd/nsd.conf"
#
#   ## The default timeout of 1s can be overridden with:
#   # timeout = "1s"


# # Read NSQ topic and channel statistics.
# [[inputs.nsq]]
#   ## An array of NSQD HTTP API endpoints
#   endpoints  = ["http://localhost:4151"]
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#
  # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Collect kernel snmp counters and network interface statistics
# [[inputs.nstat]]
#   ## file paths for proc files. If empty default paths will be used:
#   ##    /proc/net/netstat, /proc/net/snmp, /proc/net/snmp6
#   ## These can also be overridden with env variables, see README.
#   proc_net_netstat = "/proc/net/netstat"
#   proc_net_snmp = "/proc/net/snmp"
#   proc_net_snmp6 = "/proc/net/snmp6"
#   ## dump metrics with 0 values too
```

```
#   dump_zeros       = true


# # Get standard NTP query metrics, requires ntpq executable.
# [[inputs.ntpq]]
#   ## If false, set the -n ntpq flag. Can reduce metric gather time.
#   dns_lookup = true


# # Pulls statistics from nvidia GPUs attached to the host
# [[inputs.nvidia_smi]]
#   ## Optional: path to nvidia-smi binary, defaults "/usr/bin/nvidia-smi"
#   ## We will first try to locate
 the nvidia-smi binary with the explicitly specified value (or default value),
#   ## if it is not found, we will try to locate it on PATH(exec.LookPath), if it is still not found, an error will be
returned
#   # bin_path = "/usr/bin/nvidia-smi"
#
#   ## Optional: timeout for GPU polling
#   # timeout = "5s"


# # Retrieve data from OPCUA devices
# [[inputs.opcua]]
#   ## Metric name
#   # name = "opcua"
#   #
#   ## OPC UA Endpoint URL
#   # endpoint = "opc.tcp://localhost:4840"
#   #
#   ## Maximum time allowed to establish a connect to the endpoint.
#   # connect_timeout = "10s"
#   #
#   ## Maximum time allowed for a request over the estabilished connection.
#   # request_timeout = "5s"
#   #
#   ## Security policy, one of "None", "Basic128Rsa15", "Basic256",
#   ## "Basic256Sha256", or "auto"
#   # security_policy = "auto"
#   #
#   ## Security mode, one of "None", "Sign", "SignAndEncrypt", or "auto"
#   # security_mode = "auto"
#   #
#   ## Path to cert.pem. Required when security
 mode or policy isn't "None".
#   ## If cert path is not supplied, self-signed cert and key will be generated.
#   # certificate = "/etc/telegraf/cert.pem"
#   #
```

```
#   ## Path to private key.pem. Required when security mode or policy isn't "None".
#   ## If key path is not supplied, self-signed cert and key will be generated.
#   # private_key = "/etc/telegraf/key.pem"
#   #
#   ## Authentication Method, one of "Certificate", "UserName", or "Anonymous".  To
#   ## authenticate using a specific ID, select 'Certificate' or 'UserName'
#   # auth_method = "Anonymous"
#   #
#   ## Username. Required for auth_method = "UserName"
#   # username = ""
#   #
#   ## Password. Required for auth_method = "UserName"
#   # password = ""
#   #
#   ## Option to select the metric timestamp to use. Valid options are:
#   ##     "gather" -- uses the time of receiving the data in telegraf
#   ##     "server" -- uses the timestamp provided by the server
#   ##     "source" -- uses the timestamp provided
 by the source
#   # timestamp = "gather"
#   #
#   ## Node ID configuration
#   ## name             - field name to use in the output
#   ## namespace        - OPC UA namespace of the node (integer value 0 thru 3)
#   ## identifier_type  - OPC UA ID type (s=string, i=numeric, g=guid, b=opaque)
#   ## identifier       - OPC UA ID (tag as shown in opcua browser)
#   ## Example:
#   ## {name="ProductUri", namespace="0", identifier_type="i", identifier="2262"}
#   # nodes = [
#   #  {name="", namespace="", identifier_type="", identifier=""},
#   #  {name="", namespace="", identifier_type="", identifier=""},
#   #]
#   #
#   ## Node Group
#   ## Sets defaults for OPC UA namespace and ID type so they aren't required in
#   ## every node.  A group can also have a metric name that overrides the main
#   ## plugin metric name.
#   ##
#   ## Multiple node groups are allowed
#   #[[inputs.opcua.group]]
#   ## Group Metric name. Overrides the top level name.  If unset, the
#   ## top level name
 is used.
#   # name =
#   #
#   ## Group default namespace. If a node in the group doesn't set its
#   ## namespace, this is used.
#   # namespace =
```

```
#   #
#   ## Group default identifier type. If a node in the group doesn't set its
#   ## namespace, this is used.
#   # identifier_type =
#   #
#   ## Node ID Configuration.  Array of nodes with the same settings as above.
#   # nodes = [
#   #  {name="", namespace="", identifier_type="", identifier=""},
#   #  {name="", namespace="", identifier_type="", identifier=""},
#   #]


# # OpenLDAP cn=Monitor plugin
# [[inputs.openldap]]
#   host = "localhost"
#   port = 389
#
#   # ldaps, starttls, or no encryption. default is an empty string, disabling all encryption.
#   # note that port will likely need to be changed to 636 for ldaps
#   # valid options: "" | "starttls" | "ldaps"
#   tls = ""
#
#   # skip peer certificate verification. Default is false.
#   insecure_skip_verify = false
#
#   # Path to PEM-encoded Root certificate to use to
 verify server certificate
#   tls_ca = "/etc/ssl/certs.pem"
#
#   # dn/password to bind with. If bind_dn is empty, an anonymous bind is performed.
#   bind_dn = ""
#   bind_password = ""
#
#   # Reverse metric names so they sort more naturally. Recommended.
#   # This defaults to false if unset, but is set to true when generating a new config
#   reverse_metric_names = true


# # Get standard NTP query metrics from OpenNTPD.
# [[inputs.openntpd]]
#   ## Run ntpctl binary with sudo.
#   # use_sudo = false
#
#   ## Location of the ntpctl binary.
#   # binary = "/usr/sbin/ntpctl"
#
#   ## Maximum time the ntpctl binary is allowed to run.
#   # timeout = "5ms"
```

```
# # A plugin to collect stats from Opensmtpd - a validating, recursive, and caching DNS resolver
# [[inputs.opensmtpd]]
#   ## If running as a restricted user you can prepend sudo for additional access:
#   #use_sudo = false
#
#   ## The default location of the smtpctl binary can be overridden with:
#   binary = "/usr/sbin/smtpctl"
#
#
  ## The default timeout of 1000ms can be overridden with (in milliseconds):
#   timeout = 1000


# # Collects performance metrics from OpenStack services
# [[inputs.openstack]]
#   ## The recommended interval to poll is '30m'
#
#   ## The identity endpoint to authenticate against and get the service catalog from.
#   authentication_endpoint = "https://my.openstack.cloud:5000"
#
#   ## The domain to authenticate against when using a V3 identity endpoint.
#   # domain = "default"
#
#   ## The project to authenticate as.
#   # project = "admin"
#
#   ## User authentication credentials. Must have admin rights.
#   username = "admin"
#   password = "password"
#
#   ## Available services are:
#   ## "agents", "aggregates", "flavors", "hypervisors", "networks", "nova_services",
#   ## "ports", "projects", "servers", "services", "stacks", "storage_pools", "subnets", "volumes"
#   # enabled_services = ["services", "projects", "hypervisors", "flavors", "networks", "volumes"]
#
#   ## Collect
 Server Diagnostics
#   # server_diagnotics = false
#
#   ## output secrets (such as adminPass(for server) and UserID(for volume)).
#   # output_secrets = false
#
#   ## Amount of time allowed to complete the HTTP(s) request.
#   # timeout = "5s"
#
#   ## HTTP Proxy support
```

```
#   # http_proxy_url = ""
#
#   ## Optional TLS Config
#   # tls_ca = /path/to/cafile
#   # tls_cert = /path/to/certfile
#   # tls_key = /path/to/keyfile
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Options for tags received from Openstack
#   # tag_prefix = "openstack_tag_"
#   # tag_value = "true"
#
#   ## Timestamp format for timestamp data recieved from Openstack.
#   ## If false format is unix nanoseconds.
#   # human_readable_timestamps = false
#
#   ## Measure Openstack call duration
#   # measure_openstack_requests = false


# # Read current weather and forecasts data from openweathermap.org
# [[inputs.openweathermap]]
#   ## OpenWeatherMap API key.
#   app_id
 = "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
#
#   ## City ID's to collect weather data from.
#   city_id = ["5391959"]
#
#   ## Language of the description field. Can be one of "ar", "bg",
#   ## "ca", "cz", "de", "el", "en", "fa", "fi", "fr", "gl", "hr", "hu",
#   ## "it", "ja", "kr", "la", "lt", "mk", "nl", "pl", "pt", "ro", "ru",
#   ## "se", "sk", "sl", "es", "tr", "ua", "vi", "zh_cn", "zh_tw"
#   # lang = "en"
#
#   ## APIs to fetch; can contain "weather" or "forecast".
#   fetch = ["weather", "forecast"]
#
#   ## OpenWeatherMap base URL
#   # base_url = "https://api.openweathermap.org/"
#
#   ## Timeout for HTTP response.
#   # response_timeout = "5s"
#
#   ## Preferred unit system for temperature and wind speed. Can be one of
#   ## "metric", "imperial", or "standard".
#   # units = "metric"
```

```
#
#   ## Query interval; OpenWeatherMap updates their weather data every 10
#   ## minutes.
#   interval = "10m"


# # Read metrics of passenger using passenger-status
# [[inputs.passenger]]
#
  ## Path of passenger-status.
#   ##
#   ## Plugin gather metric via parsing XML output of passenger-status
#   ## More information about the tool:
#   ##   https://www.phusionpassenger.com/library/admin/apache/overall_status_report.html
#   ##
#   ## If no path is specified, then the plugin simply execute passenger-status
#   ## hopefully it can be found in your PATH
#   command = "passenger-status -v --show=xml"


# # Gather counters from PF
# [[inputs.pf]]
#   ## PF require root access on most systems.
#   ## Setting 'use_sudo' to true will make use of sudo to run pfctl.
#   ## Users must configure sudo to allow telegraf user to run pfctl with no password.
#   ## pfctl can be restricted to only list command "pfctl -s info".
#   use_sudo = false


# # Read metrics of phpfpm, via HTTP status page or socket
# [[inputs.phpfpm]]
#   ## An array of addresses to gather stats about. Specify an ip or hostname
#   ## with optional port and path
#   ##
#   ## Plugin can be configured in three
 modes (either can be used):
#   ##   - http: the URL must start with http:// or https://, ie:
#   ##       "http://localhost/status"
#   ##       "http://192.168.130.1/status?full"
#   ##
#   ##   - unixsocket: path to fpm socket, ie:
#   ##       "/var/run/php5-fpm.sock"
#   ##      or using a custom fpm status path:
#   ##       "/var/run/php5-fpm.sock:fpm-custom-status-path"
#   ##
#   ##   - fcgi: the URL must start with fcgi:// or cgi://, and port must be present, ie:
#   ##       "fcgi://10.0.0.12:9000/status"
#   ##       "cgi://10.0.10.12:9001/status"
```

```
#   ##
#   ## Example of multiple gathering from local socket and remote host
#   ## urls = ["http://192.168.1.20/status", "/tmp/fpm.sock"]
#   urls = ["http://localhost/status"]
#
#   ## Duration allowed to complete HTTP requests.
#   # timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain
 & host verification
#   # insecure_skip_verify = false


# # Ping given url(s) and return statistics
# [[inputs.ping]]
#   ## Hosts to send ping packets to.
#   urls = ["example.org"]
#
#   ## Method used for sending pings, can be either "exec" or "native".  When set
#   ## to "exec" the systems ping command will be executed.  When set to "native"
#   ## the plugin will send pings directly.
#   ##
#   ## While the default is "exec" for backwards compatibility, new deployments
#   ## are encouraged to use the "native" method for improved compatibility and
#   ## performance.
#   # method = "exec"
#
#   ## Number of ping packets to send per interval.  Corresponds to the "-c"
#   ## option of the ping command.
#   # count = 1
#
#   ## Time to wait between sending ping packets in seconds.  Operates like the
#   ## "-i" option of the ping command.
#   # ping_interval = 1.0
#
#   ## If set, the time to wait for a ping response in seconds.  Operates like
#   ## the "-W" option of the ping command.
#
  # timeout = 1.0
#
#   ## If set, the total ping deadline, in seconds.  Operates like the -w option
#   ## of the ping command.
#   # deadline = 10
#
```

```
#   ## Interface or source address to send ping from.  Operates like the -I or -S
#   ## option of the ping command.
#   # interface = ""
#
#   ## Percentiles to calculate. This only works with the native method.
#   # percentiles = [50, 95, 99]
#
#   ## Specify the ping executable binary.
#   # binary = "ping"
#
#   ## Arguments for ping command. When arguments is not empty, the command from
#   ## the binary option will be used and other options (ping_interval, timeout,
#   ## etc) will be ignored.
#   # arguments = ["-c", "3"]
#
#   ## Use only IPv6 addresses when resolving a hostname.
#   # ipv6 = false
#
#   ## Number of data bytes to be sent. Corresponds to the "-s"
#   ## option of the ping command. This only works with the native method.
#   # size = 56


# # Measure postfix queue statistics
# [[inputs.postfix]]
#   ## Postfix
 queue directory. If not provided, telegraf will try to use
#   ## 'postconf -h queue_directory' to determine it.
#   # queue_directory = "/var/spool/postfix"


# # Read metrics from one or many PowerDNS servers
# [[inputs.powerdns]]
#   ## An array of sockets to gather stats about.
#   ## Specify a path to unix socket.
#   unix_sockets = ["/var/run/pdns.controlsocket"]


# # Read metrics from one or many PowerDNS Recursor servers
# [[inputs.powerdns_recursor]]
#   ## Path to the Recursor control socket.
#   unix_sockets = ["/var/run/pdns_recursor.controlsocket"]
#
#   ## Directory to create receive socket.  This default is likely not writable,
#   ## please reference the full plugin documentation for a recommended setup.
#   # socket_dir = "/var/run/"
#   ## Socket permissions for the receive socket.
#   # socket_mode = "0666"
```

```
# # Monitor process cpu and memory usage
# [[inputs.procstat]]
#   ## PID file to monitor process
#   pid_file = "/var/run/nginx.pid"
#   ## executable
 name (ie, pgrep <exe>)
#   # exe = "nginx"
#   ## pattern as argument for pgrep (ie, pgrep -f <pattern>)
#   # pattern = "nginx"
#   ## user as argument for pgrep (ie, pgrep -u <user>)
#   # user = "nginx"
#   ## Systemd unit name, supports globs when include_systemd_children is set to true
#   # systemd_unit = "nginx.service"
#   # include_systemd_children = false
#   ## CGroup name or path, supports globs
#   # cgroup = "systemd/system.slice/nginx.service"
#
#   ## Windows service name
#   # win_service = ""
#
#   ## override for process_name
#   ## This is optional; default is sourced from /proc/<pid>/status
#   # process_name = "bar"
#
#   ## Field name prefix
#   # prefix = ""
#
#   ## When true add the full cmdline as a tag.
#   # cmdline_tag = false
#
#   ## Mode to use when calculating CPU usage. Can be one of 'solaris' or 'irix'.
#   # mode = "irix"
#
#   ## Add the PID as a tag instead of as a field.  When collecting multiple
#   ## processes with otherwise matching tags this
 setting should be enabled to
#   ## ensure each process has a unique identity.
#   ##
#   ## Enabling this option may result in a large number of series, especially
#   ## when processes have a short lifetime.
#   # pid_tag = false
#
#   ## Method to use when finding process IDs.  Can be one of 'pgrep', or
#   ## 'native'.  The pgrep finder calls the pgrep executable in the PATH while
#   ## the native finder performs the search directly in a manor dependent on the
#   ## platform.  Default is 'pgrep'
```

```
#   # pid_finder = "pgrep"


# # Provides metrics from Proxmox nodes (Proxmox Virtual Environment > 6.2).
# [[inputs.proxmox]]
#   ## API connection configuration. The API token was introduced in Proxmox v6.2. Required permissions for user and token: PVEAuditor role on /.
#   base_url = "https://localhost:8006/api2/json"
#   api_token = "USER@REALM!TOKENID=UUID"
#   ## Node name, defaults to OS hostname
#   # node_name = ""
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#
  # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   insecure_skip_verify = false
#
#   # HTTP response timeout (default: 5s)
#   response_timeout = "5s"


# # Reads last_run_summary.yaml file and converts to measurements
# [[inputs.puppetagent]]
#   ## Location of puppet last run summary file
#   location = "/var/lib/puppet/state/last_run_summary.yaml"


# # Reads metrics from RabbitMQ servers via the Management Plugin
# [[inputs.rabbitmq]]
#   ## Management Plugin url. (default: http://localhost:15672)
#   # url = "http://localhost:15672"
#   ## Tag added to rabbitmq_overview series; deprecated: use tags
#   # name = "rmq-server-1"
#   ## Credentials
#   # username = "guest"
#   # password = "guest"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#
 # insecure_skip_verify = false
#
```

```
#   ## Optional request timeouts
#   ##
#   ## ResponseHeaderTimeout, if non-zero, specifies the amount of time to wait
#   ## for a server's response headers after fully writing the request.
#   # header_timeout = "3s"
#   ##
#   ## client_timeout specifies a time limit for requests made by this client.
#   ## Includes connection time, any redirects, and reading the response body.
#   # client_timeout = "4s"
#
#   ## A list of nodes to gather as the rabbitmq_node measurement. If not
#   ## specified, metrics for all nodes are gathered.
#   # nodes = ["rabbit@node1", "rabbit@node2"]
#
#   ## A list of queues to gather as the rabbitmq_queue measurement. If not
#   ## specified, metrics for all queues are gathered.
#   # queues = ["telegraf"]
#
#   ## A list of exchanges to gather as the rabbitmq_exchange measurement. If not
#   ## specified, metrics for all exchanges are gathered.
#   # exchanges = ["telegraf"]
#
#   ## Metrics to include and exclude. Globs
 accepted.
#   ## Note that an empty array for both will include all metrics
#   ## Currently the following metrics are supported: "exchange", "federation", "node", "overview", "queue"
#   # metric_include = []
#   # metric_exclude = []
#
#   ## Queues to include and exclude. Globs accepted.
#   ## Note that an empty array for both will include all queues
#   queue_name_include = []
#   queue_name_exclude = []
#
#   ## Federation upstreams include and exclude when gathering the rabbitmq_federation measurement.
#   ## If neither are specified, metrics for all federation upstreams are gathered.
#   ## Federation link metrics will only be gathered for queues and exchanges
#   ## whose non-federation metrics will be collected (e.g a queue excluded
#   ## by the 'queue_name_exclude' option will also be excluded from federation).
#   ## Globs accepted.
#   # federation_upstream_include = ["dataCentre-*"]
#   # federation_upstream_exclude = []


# # Read raindrops stats (raindrops - real-time
 stats for preforking Rack servers)
# [[inputs.raindrops]]
#   ## An array of raindrops middleware URI to gather stats.
```

```
#   urls = ["http://localhost:8080/_raindrops"]


# # Reads metrics from RavenDB servers via the Monitoring Endpoints
# [[inputs.ravendb]]
#   ## Node URL and port that RavenDB is listening on
#   url = "https://localhost:8080"
#
#   ## RavenDB X509 client certificate setup
#   # tls_cert = "/etc/telegraf/raven.crt"
#   # tls_key = "/etc/telegraf/raven.key"
#
#   ## Optional request timeout
#   ##
#   ## Timeout, specifies the amount of time to wait
#   ## for a server's response headers after fully writing the request and
#   ## time limit for requests made by this client
#   # timeout = "5s"
#
#   ## List of statistics which are collected
#   # At least one is required
#   # Allowed values: server, databases, indexes, collections
#   #
#   # stats_include = ["server", "databases", "indexes", "collections"]
#
#   ## List of db where database stats are collected
#
  ## If empty, all db are concerned
#   # db_stats_dbs = []
#
#   ## List of db where index status are collected
#   ## If empty, all indexes from all db are concerned
#   # index_stats_dbs = []
#
#   ## List of db where collection status are collected
#   ## If empty, all collections from all db are concerned
#   # collection_stats_dbs = []


# # Read CPU, Fans, Powersupply and Voltage metrics of hardware server through redfish APIs
# [[inputs.redfish]]
#   ## Server url
#   address = "https://127.0.0.1:5000"
#
#   ## Username, Password for hardware server
#   username = "root"
#   password = "password123456"
#
```

```
#   ## ComputerSystemId
#   computer_system_id="2M220100SL"
#
#   ## Amount of time allowed to complete the HTTP request
#   # timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


#
 # Read metrics from one or many redis servers
# [[inputs.redis]]
#   ## specify servers via a url matching:
#   ##  [protocol://][:password]@address[:port]
#   ##  e.g.
#   ##    tcp://localhost:6379
#   ##    tcp://:password@192.168.99.100
#   ##    unix:///var/run/redis.sock
#   ##
#   ## If no servers are specified, then localhost is used as the host.
#   ## If no port is specified, 6379 is used
#   servers = ["tcp://localhost:6379"]
#
#   ## Optional. Specify redis commands to retrieve values
#   # [[inputs.redis.commands]]
#   #   # The command to run where each argument is a separate element
#   #   command = ["get", "sample-key"]
#   #   # The field to store the result in
#   #   field = "sample-key-value"
#   #   # The type of the result
#   #   # Can be "string", "integer", or "float"
#   #   type = "string"
#
#   ## specify server password
#   # password = "s#cr@t%"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#
   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = true
```

```
# # Read metrics from one or many RethinkDB servers
# [[inputs.rethinkdb]]
#   ## An array of URI to gather stats about. Specify an ip or hostname
#   ## with optional port add password. ie,
#   ##   rethinkdb://user:auth_key@10.10.3.30:28105,
#   ##   rethinkdb://10.10.3.33:18832,
#   ##   10.0.0.1:10000, etc.
#   servers = ["127.0.0.1:28015"]
#   ##
#   ## If you use actual rethinkdb of > 2.3.0 with username/password authorization,
#   ## protocol have to be named "rethinkdb2" - it will use 1_0 H.
#   # servers = ["rethinkdb2://username:password@127.0.0.1:28015"]
#   ##
#   ## If you use older versions of rethinkdb (<2.2) with auth_key, protocol
#   ## have to be named "rethinkdb".
#   # servers = ["rethinkdb://username:auth_key@127.0.0.1:28015"]


# # Read metrics one or many Riak servers
# [[inputs.riak]]
#   # Specify a list of one or more riak http servers
#
  servers = ["http://localhost:8098"]


# # Read API usage and limits for a Salesforce organisation
# [[inputs.salesforce]]
#   ## specify your credentials
#   ##
#   username = "your_username"
#   password = "your_password"
#   ##
#   ## (optional) security token
#   # security_token = "your_security_token"
#   ##
#   ## (optional) environment type (sandbox or production)
#   ## default is: production
#   ##
#   # environment = "production"
#   ##
#   ## (optional) API version (default: "39.0")
#   ##
#   # version = "39.0"


# # Monitor sensors, requires lm-sensors package
```

```
# [[inputs.sensors]]
#   ## Remove numbers from field names.
#   ## If true, a field name like 'temp1_input' will be changed to 'temp_input'.
#   # remove_numbers = true
#
#   ## Timeout is the maximum amount of time that the sensors command can run.
#   # timeout = "5s"


# # Read metrics from storage devices supporting S.M.A.R.T.
# [[inputs.smart]]
#   ## Optionally specify the path to the smartctl executable
#
  # path_smartctl = "/usr/bin/smartctl"
#
#   ## Optionally specify the path to the nvme-cli executable
#   # path_nvme = "/usr/bin/nvme"
#
#   ## Optionally specify if vendor specific attributes should be propagated for NVMe disk case
#   ## ["auto-on"] - automatically find and enable additional vendor specific disk info
#   ## ["vendor1", "vendor2", ...] - e.g. "Intel" enable additional Intel specific disk info
#   # enable_extensions = ["auto-on"]
#
#   ## On most platforms used cli utilities requires root access.
#   ## Setting 'use_sudo' to true will make use of sudo to run smartctl or nvme-cli.
#   ## Sudo must be configured to allow the telegraf user to run smartctl or nvme-cli
#   ## without a password.
#   # use_sudo = false
#
#   ## Skip checking disks in this power mode. Defaults to
#   ## "standby" to not wake up disks that have stopped rotating.
#   ## See --nocheck in the man pages for smartctl.
#   ## smartctl version 5.41 and 5.42 have faulty detection of
#   ## power mode
 and might require changing this value to
#   ## "never" depending on your disks.
#   # nocheck = "standby"
#
#   ## Gather all returned S.M.A.R.T. attribute metrics and the detailed
#   ## information from each drive into the 'smart_attribute' measurement.
#   # attributes = false
#
#   ## Optionally specify devices to exclude from reporting if disks auto-discovery is performed.
#   # excludes = [ "/dev/pass6" ]
#
#   ## Optionally specify devices and device type, if unset
#   ## a scan (smartctl --scan and smartctl --scan -d nvme) for S.M.A.R.T. devices will be done
#   ## and all found will be included except for the excluded in excludes.
```

```
#   # devices = [ "/dev/ada0 -d atacam", "/dev/nvme0"]
#
#   ## Timeout for the cli command to complete.
#   # timeout = "30s"
#
#   ## Optionally call smartctl and nvme-cli with a specific concurrency policy.
#   ## By default, smartctl and nvme-cli are called in separate threads (goroutines) to gather disk attributes.
#   ## Some devices (e.g.
 disks in RAID arrays) may have access limitations that require sequential reading of
#   ## SMART data - one individual array drive at the time. In such case please set this configuration option
#   ## to "sequential" to get readings for all drives.
#   ## valid options: concurrent, sequential
#   # read_method = "concurrent"


# # Retrieves SNMP values from remote agents
# [[inputs.snmp]]
#   ## Agent addresses to retrieve values from.
#   ##   format:  agents = ["<scheme://><hostname>:<port>"]
#   ##   scheme:  optional, either udp, udp4, udp6, tcp, tcp4, tcp6.
#   ##            default is udp
#   ##   port:    optional
#   ##   example: agents = ["udp://127.0.0.1:161"]
#   ##            agents = ["tcp://127.0.0.1:161"]
#   ##            agents = ["udp4://v4only-snmp-agent"]
#   agents = ["udp://127.0.0.1:161"]
#
#   ## Timeout for each request.
#   # timeout = "5s"
#
#   ## SNMP version; can be 1, 2, or 3.
#   # version = 2
#
#   ## Path to mib files
#   # path = ["/usr/share/snmp/mibs"]
#
#
  ## Agent host tag; the tag used to reference the source host
#   # agent_host_tag = "agent_host"
#
#   ## SNMP community string.
#   # community = "public"
#
#   ## Number of retries to attempt.
#   # retries = 3
#
#   ## The GETBULK max-repetitions parameter.
#   # max_repetitions = 10
```

```
#
#   ## SNMPv3 authentication and encryption options.
#   ##
#   ## Security Name.
#   # sec_name = "myuser"
#   ## Authentication protocol; one of "MD5", "SHA", "SHA224", "SHA256", "SHA384", "SHA512" or "".
#   # auth_protocol = "MD5"
#   ## Authentication password.
#   # auth_password = "pass"
#   ## Security Level; one of "noAuthNoPriv", "authNoPriv", or "authPriv".
#   # sec_level = "authNoPriv"
#   ## Context Name.
#   # context_name = ""
#   ## Privacy protocol used for encrypted messages; one of "DES", "AES" or "".
#   # priv_protocol = ""
#   ## Privacy password used for encrypted messages.
#   # priv_password = ""
#
#   ## Add fields and tables defining the variables you wish to collect.
  This
#   ## example collects the system uptime and interface variables.  Reference the
#   ## full plugin documentation for configuration details.


# # DEPRECATED! PLEASE USE inputs.snmp INSTEAD.
# [[inputs.snmp_legacy]]
#   ## DEPRECATED: The 'snmp_legacy' plugin is deprecated in version 1.0.0, use 'inputs.snmp' instead.
#   ## Use 'oids.txt' file to translate oids to names
#   ## To generate 'oids.txt' you need to run:
#   ##   snmptranslate -m all -Tz -On | sed -e 's/"//g' > /tmp/oids.txt
#   ## Or if you have an other MIB folder with custom MIBs
#   ##   snmptranslate -M /mycustommibfolder -Tz -On -m all | sed -e 's/"//g' > oids.txt
#   snmptranslate_file = "/tmp/oids.txt"
#   [[inputs.snmp.host]]
#     address = "192.168.2.2:161"
#     # SNMP community
#     community = "public" # default public
#     # SNMP version (1, 2 or 3)
#     # Version 3 not supported yet
#     version = 2 # default 2
#     # SNMP response timeout
#     timeout = 2.0 # default 2.0
#     # SNMP request
  retries
#     retries = 2 # default 2
#     # Which get/bulk do you want to collect for this host
#     collect = ["mybulk", "sysservices", "sysdescr"]
#     # Simple list of OIDs to get, in addition to "collect"
```

```
#    get_oids = []
#
#  [[inputs.snmp.host]]
#    address = "192.168.2.3:161"
#    community = "public"
#    version = 2
#    timeout = 2.0
#    retries = 2
#    collect = ["mybulk"]
#    get_oids = [
#        "ifNumber",
#        ".1.3.6.1.2.1.1.3.0",
#    ]
#
#  [[inputs.snmp.get]]
#    name = "ifnumber"
#    oid = "ifNumber"
#
#  [[inputs.snmp.get]]
#    name = "interface_speed"
#    oid = "ifSpeed"
#    instance = "0"
#
#  [[inputs.snmp.get]]
#    name = "sysuptime"
#    oid = ".1.3.6.1.2.1.1.3.0"
#    unit = "second"
#
#  [[inputs.snmp.bulk]]
#    name = "mybulk"
#    max_repetition = 127
#    oid = ".1.3.6.1.2.1.1"
#
#  [[inputs.snmp.bulk]]
#    name = "ifoutoctets"
#    max_repetition = 127
#    oid = "ifOutOctets"
#
#  [[inputs.snmp.host]]
#
   address = "192.168.2.13:161"
#    #address = "127.0.0.1:161"
#    community = "public"
#    version = 2
#    timeout = 2.0
#    retries = 2
#    #collect = ["mybulk", "sysservices", "sysdescr", "systype"]
#    collect = ["sysuptime" ]
```

```
#     [[inputs.snmp.host.table]]
#       name = "iftable3"
#       include_instances = ["enp5s0", "eth1"]
#
#   # SNMP TABLEs
#   # table without mapping neither subtables
#   [[inputs.snmp.table]]
#     name = "iftable1"
#     oid = ".1.3.6.1.2.1.31.1.1.1"
#
#   # table without mapping but with subtables
#   [[inputs.snmp.table]]
#     name = "iftable2"
#     oid = ".1.3.6.1.2.1.31.1.1.1"
#     sub_tables = [".1.3.6.1.2.1.2.2.1.13"]
#
#   # table with mapping but without subtables
#   [[inputs.snmp.table]]
#     name = "iftable3"
#     oid = ".1.3.6.1.2.1.31.1.1.1"
#     # if empty. get all instances
#     mapping_table = ".1.3.6.1.2.1.31.1.1.1.1"
#     # if empty, get all subtables
#
#   # table with both mapping and subtables
#
 [[inputs.snmp.table]]
#     name = "iftable4"
#     oid = ".1.3.6.1.2.1.31.1.1.1"
#     # if empty get all instances
#     mapping_table = ".1.3.6.1.2.1.31.1.1.1.1"
#     # if empty get all subtables
#     # sub_tables could be not "real subtables"
#     sub_tables=[".1.3.6.1.2.1.2.2.1.13", "bytes_recv", "bytes_send"]


# # Read stats from one or more Solr servers or cores
# [[inputs.solr]]
#   ## specify a list of one or more Solr servers
#   servers = ["http://localhost:8983"]
#
#   ## specify a list of one or more Solr cores (default - all)
#   # cores = ["main"]
#
#   ## Optional HTTP Basic Auth Credentials
#   # username = "username"
#   # password = "pa$$word"
```

```
# # Gather timeseries from Google Cloud Platform v3 monitoring API
# [[inputs.stackdriver]]
#   ## GCP Project
#   project = "erudite-bloom-151019"
#
#   ## Include timeseries that start with the given metric type.
#   metric_type_prefix_include = [
#     "compute.googleapis.com/",
#   ]
#
#   ## Exclude timeseries that start
 with the given metric type.
#   # metric_type_prefix_exclude = []
#
#   ## Many metrics are updated once per minute; it is recommended to override
#   ## the agent level interval with a value of 1m or greater.
#   interval = "1m"
#
#   ## Maximum number of API calls to make per second.  The quota for accounts
#   ## varies, it can be viewed on the API dashboard:
#   ##   https://cloud.google.com/monitoring/quotas#quotas_and_limits
#   # rate_limit = 14
#
#   ## The delay and window options control the number of points selected on
#   ## each gather.  When set, metrics are gathered between:
#   ##   start: now() - delay - window
#   ##   end:   now() - delay
#   #
#   ## Collection delay; if set too low metrics may not yet be available.
#   # delay = "5m"
#   #
#   ## If unset, the window will start at 1m and be updated dynamically to span
#   ## the time between calls (approximately the length of the plugin interval).
#   # window = "1m"
#
#   ## TTL for cached list of metric types.
  This is the maximum amount of time
#   ## it may take to discover new metrics.
#   # cache_ttl = "1h"
#
#   ## If true, raw bucket counts are collected for distribution value types.
#   ## For a more lightweight collection, you may wish to disable and use
#   ## distribution_aggregation_aligners instead.
#   # gather_raw_distribution_buckets = true
#
#   ## Aggregate functions to be used for metrics whose value type is
#   ## distribution.  These aggregate values are recorded in in addition to raw
```

```
#   ## bucket counts; if they are enabled.
#   ##
#   ## For a list of aligner strings see:
#   ##    https://cloud.google.com/monitoring/api/ref_v3/rpc/google.monitoring.v3#aligner
#   # distribution_aggregation_aligners = [
#   #  "ALIGN_PERCENTILE_99",
#   #  "ALIGN_PERCENTILE_95",
#   #  "ALIGN_PERCENTILE_50",
#   # ]
#
#   ## Filters can be added to reduce the number of time series matched.  All
#   ## functions are supported: starts_with, ends_with, has_substring, and
#   ## one_of.
  Only the '=' operator is supported.
#   ##
#   ## The logical operators when combining filters are defined statically using
#   ## the following values:
#   ##    filter ::= <resource_labels> {AND <metric_labels>}
#   ##    resource_labels ::= <resource_labels> {OR <resource_label>}
#   ##    metric_labels ::= <metric_labels> {OR <metric_label>}
#   ##
#   ## For more details, see https://cloud.google.com/monitoring/api/v3/filters
#   #
#   ## Resource labels refine the time series selection with the following expression:
#   ##    resource.labels.<key> = <value>
#   # [[inputs.stackdriver.filter.resource_labels]]
#   #   key = "instance_name"
#   #   value = 'starts_with("localhost")'
#   #
#   ## Metric labels refine the time series selection with the following expression:
#   ##    metric.labels.<key> = <value>
#   #  [[inputs.stackdriver.filter.metric_labels]]
#   #    key = "device_name"
#   #    value = 'one_of("sda", "sdb")'


# # Get synproxy counter statistics from procfs
# [[inputs.synproxy]]
#
   # no configuration


# # Sysstat metrics collector
# [[inputs.sysstat]]
#   ## Path to the sadc command.
#   #
#   ## Common Defaults:
#   ##    Debian/Ubuntu: /usr/lib/sysstat/sadc
```

```
#   ##   Arch:          /usr/lib/sa/sadc
#   ##   RHEL/CentOS:   /usr/lib64/sa/sadc
#   sadc_path = "/usr/lib/sa/sadc" # required
#
#   ## Path to the sadf command, if it is not in PATH
#   # sadf_path = "/usr/bin/sadf"
#
#   ## Activities is a list of activities, that are passed as argument to the
#   ## sadc collector utility (e.g: DISK, SNMP etc...)
#   ## The more activities that are added, the more data is collected.
#   # activities = ["DISK"]
#
#   ## Group metrics to measurements.
#   ##
#   ## If group is false each metric will be prefixed with a description
#   ## and represents itself a measurement.
#   ##
#   ## If Group is true, corresponding metrics are grouped to a single measurement.
#   # group = true
#
#   ## Options for the sadf command. The values on the left represent the
 sadf
#   ## options and the values on the right their description (which are used for
#   ## grouping and prefixing metrics).
#   ##
#   ## Run 'sar -h' or 'man sar' to find out the supported options for your
#   ## sysstat version.
#   [inputs.sysstat.options]
#     -C = "cpu"
#     -B = "paging"
#     -b = "io"
#     -d = "disk"             # requires DISK activity
#     "-n ALL" = "network"
#     "-P ALL" = "per_cpu"
#     -q = "queue"
#     -R = "mem"
#     -r = "mem_util"
#     -S = "swap_util"
#     -u = "cpu_util"
#     -v = "inode"
#     -W = "swap"
#     -w = "task"
#   #  -H = "hugepages"        # only available for newer linux distributions
#   #  "-I ALL" = "interrupts" # requires INT activity
#
#   ## Device tags can be used to add additional tags for devices.
#   ## For example the configuration below adds a tag vg with value rootvg for
#   ## all metrics with sda devices.
```

```
#   # [[inputs.sysstat.device_tags.sda]]
#   #  vg = "rootvg"


# # Gather systemd units state
#
 [[inputs.systemd_units]]
#   ## Set timeout for systemctl execution
#   # timeout = "1s"
#   #
#   ## Filter for a specific unit type, default is "service", other possible
#   ## values are "socket", "target", "device", "mount", "automount", "swap",
#   ## "timer", "path", "slice" and "scope ":
#   # unittype = "service"
#   #
#   ## Filter for a specific pattern, default is "" (i.e. all), other possible
#   ## values are valid pattern for systemctl, e.g. "a*" for all units with
#   ## names starting with "a"
#   # pattern = ""
#   ## pattern = "telegraf* influxdb*"
#   ## pattern = "a*"


# # Reads metrics from a Teamspeak 3 Server via ServerQuery
# [[inputs.teamspeak]]
#   ## Server address for Teamspeak 3 ServerQuery
#   # server = "127.0.0.1:10011"
#   ## Username for ServerQuery
#   username = "serverqueryuser"
#   ## Password for ServerQuery
#   password = "secret"
#   ## Array of virtual servers
#   # virtual_servers = [1]


# # Read metrics about temperature
# [[inputs.temp]]
#
  # no configuration


# # Read Tengine's basic status information (ngx_http_reqstat_module)
# [[inputs.tengine]]
#   # An array of Tengine reqstat module URI to gather stats.
#   urls = ["http://127.0.0.1/us"]
#
#   # HTTP response timeout (default: 5s)
#   # response_timeout = "5s"
```

```
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.cer"
#   # tls_key = "/etc/telegraf/key.key"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Gather metrics from the Tomcat server status page.
# [[inputs.tomcat]]
#   ## URL of the Tomcat server status
#   # url = "http://127.0.0.1:8080/manager/status/all?XML=true"
#
#   ## HTTP Basic Auth Credentials
#   # username = "tomcat"
#   # password = "s3cret"
#
#   ## Request timeout
#   # timeout = "5s"
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but
 skip chain & host verification
#   # insecure_skip_verify = false


# # Inserts sine and cosine waves for demonstration purposes
# [[inputs.trig]]
#   ## Set the amplitude
#   amplitude = 10.0


# # Read Twemproxy stats data
# [[inputs.twemproxy]]
#   ## Twemproxy stats address and port (no scheme)
#   addr = "localhost:22222"
#   ## Monitor pool name
#   pools = ["redis_pool", "mc_pool"]


# # A plugin to collect stats from the Unbound DNS resolver
# [[inputs.unbound]]
#   ## Address of server to connect to, read from unbound conf default, optionally ':port'
#   ## Will lookup IP if given a hostname
```

```
#   server = "127.0.0.1:8953"
#
#   ## If running as a restricted user you can prepend sudo for additional access:
#   # use_sudo = false
#
#   ## The default location of the unbound-control binary can be overridden with:
#   # binary = "/usr/sbin/unbound-control"
#
#   ## The default location of the unbound config file can be overridden with:
#   # config_file = "/etc/unbound/unbound.conf"
#
#
  ## The default timeout of 1s can be overridden with:
#   # timeout = "1s"
#
#   ## When set to true, thread metrics are tagged with the thread id.
#   ##
#   ## The default is false for backwards compatibility, and will be changed to
#   ## true in a future version.  It is recommended to set to true on new
#   ## deployments.
#   thread_as_tag = false


# # Read uWSGI metrics.
# [[inputs.uwsgi]]
#   ## List with urls of uWSGI Stats servers. URL must match pattern:
#   ## scheme://address[:port]
#   ##
#   ## For example:
#   ## servers = ["tcp://localhost:5050", "http://localhost:1717", "unix:///tmp/statsock"]
#   servers = ["tcp://127.0.0.1:1717"]
#
#   ## General connection timeout
#   # timeout = "5s"


# # A plugin to collect stats from Varnish HTTP Cache
# [[inputs.varnish]]
#   ## If running as a restricted user you can prepend sudo for additional access:
#   #use_sudo = false
#
#   ## The default location of the varnishstat binary can be overridden with:
#   binary =
 "/usr/bin/varnishstat"
#
#   ## By default, telegraf gather stats for 3 metric points.
#   ## Setting stats will override the defaults shown below.
#   ## Glob matching can be used, ie, stats = ["MAIN.*"]
```

```
#   ## stats may also be set to ["*"], which will collect all stats
#   stats = ["MAIN.cache_hit", "MAIN.cache_miss", "MAIN.uptime"]
#
#   ## Optional name for the varnish instance (or working directory) to query
#   ## Usually append after -n in varnish cli
#   # instance_name = instanceName
#
#   ## Timeout for varnishstat command
#   # timeout = "1s"


# # Collect Wireguard server interface and peer statistics
# [[inputs.wireguard]]
#   ## Optional list of Wireguard device/interface names to query.
#   ## If omitted, all Wireguard interfaces are queried.
#   # devices = ["wg0"]


# # Monitor wifi signal strength and quality
# [[inputs.wireless]]
#   ## Sets 'proc' directory path
#   ## If not specified, then default is /proc
#   # host_proc = "/proc"


# # Reads metrics from a SSL
 certificate
# [[inputs.x509_cert]]
#   ## List certificate sources
#   ## Prefix your entry with 'file://' if you intend to use relative paths
#   sources = ["tcp://example.org:443", "https://influxdata.com:443",
#             "udp://127.0.0.1:4433", "/etc/ssl/certs/ssl-cert-snakeoil.pem",
#             "/etc/mycerts/*.mydomain.org.pem", "file:///path/to/*.pem"]
#
#   ## Timeout for SSL connection
#   # timeout = "5s"
#
#   ## Pass a different name into the TLS request (Server Name Indication)
#   ##   example: server_name = "myhost.example.org"
#   # server_name = ""
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"


# # Read metrics of ZFS from arcstats, zfetchstats, vdev_cache_stats, pools and datasets
```

```
# [[inputs.zfs]]
#   ## ZFS kstat path. Ignored on FreeBSD
#   ## If not specified, then default is:
#   # kstatPath = "/proc/spl/kstat/zfs"
#
#   ## By default, telegraf gather all zfs
 stats
#   ## If not specified, then default is:
#   # kstatMetrics = ["arcstats", "zfetchstats", "vdev_cache_stats"]
#   ## For Linux, the default is:
#   # kstatMetrics = ["abdstats", "arcstats", "dnodestats", "dbufcachestats",
#   #   "dmu_tx", "fm", "vdev_mirror_stats", "zfetchstats", "zil"]
#   ## By default, don't gather zpool stats
#   # poolMetrics = false
#   ## By default, don't gather zdataset stats
#   # datasetMetrics = false


# # Reads 'mntr' stats from one or many zookeeper servers
# [[inputs.zookeeper]]
#   ## An array of address to gather stats about. Specify an ip or hostname
#   ## with port. ie localhost:2181, 10.0.0.1:2181, etc.
#
#   ## If no servers are specified, then localhost is used as the host.
#   ## If no port is specified, 2181 is used
#   servers = [":2181"]
#
#   ## Timeout for metric collections from all servers.  Minimum timeout is "1s".
#   # timeout = "5s"
#
#   ## Optional TLS Config
#   # enable_tls = true
#   # tls_ca = "/etc/telegraf/ca.pem"
#
  # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## If false, skip chain & host verification
#   # insecure_skip_verify = true


###############################################################################
#                            SERVICE INPUT PLUGINS                            #
###############################################################################


# # Pull Metric Statistics from Aliyun CMS
# [[inputs.aliyuncms]]
#   ## Aliyun Credentials
```

```
#   ## Credentials are loaded in the following order
#   ## 1) Ram RoleArn credential
#   ## 2) AccessKey STS token credential
#   ## 3) AccessKey credential
#   ## 4) Ecs Ram Role credential
#   ## 5) RSA keypair credential
#   ## 6) Environment variables credential
#   ## 7) Instance metadata credential
#
#   # access_key_id = ""
#   # access_key_secret = ""
#   # access_key_sts_token = ""
#   # role_arn = ""
#   # role_session_name = ""
#   # private_key = ""
#   # public_key_id = ""
#   # role_name
 = ""
#
#   ## Specify the ali cloud region list to be queried for metrics and objects discovery
#   ## If not set, all supported regions (see below) would be covered, it can provide a significant load on API, so the
recommendation here
#   ## is to limit the list as much as possible. Allowed values: https://www.alibabacloud.com/help/zh/doc-
detail/40654.htm
#   ## Default supported regions are:
#   ## 21 items: cn-qingdao,cn-beijing,cn-zhangjiakou,cn-huhehaote,cn-hangzhou,cn-shanghai,cn-shenzhen,
#   ##           cn-heyuan,cn-chengdu,cn-hongkong,ap-southeast-1,ap-southeast-2,ap-southeast-3,ap-southeast-5,
#   ##           ap-south-1,ap-northeast-1,us-west-1,us-east-1,eu-central-1,eu-west-1,me-east-1
#   ##
#   ## From discovery perspective it set the scope for object discovery, the discovered info can be used to enrich
#   ## the metrics with objects attributes/tags. Discovery is supported not for all projects (if not supported, then
#   ## it will be reported on the start - for example
 for 'acs_cdn' project:
#   ## 'E! [inputs.aliyuncms] Discovery tool is not activated: no discovery support for project "acs_cdn"' )
#   ## Currently, discovery supported for the following projects:
#   ## - acs_ecs_dashboard
#   ## - acs_rds_dashboard
#   ## - acs_slb_dashboard
#   ## - acs_vpc_eip
#   regions = ["cn-hongkong"]
#
#   # The minimum period for AliyunCMS metrics is 1 minute (60s). However not all
#   # metrics are made available to the 1 minute period. Some are collected at
#   # 3 minute, 5 minute, or larger intervals.
#   # See: https://help.aliyun.com/document_detail/51936.html?spm=a2c4g.11186623.2.18.2bc1750eeOw1Pv
#   # Note that if a period is configured that is smaller than the minimum for a
#   # particular metric, that metric will not be returned by the Aliyun OpenAPI
#   # and will not be collected by Telegraf.
```

```
#   #
#   ## Requested AliyunCMS aggregation Period (required - must be a multiple of 60s)
#   period = "5m"
#
#   ## Collection Delay (required -
 must account for metrics availability via AliyunCMS API)
#   delay = "1m"
#
#   ## Recommended: use metric 'interval' that is a multiple of 'period' to avoid
#   ## gaps or overlap in pulled data
#   interval = "5m"
#
#   ## Metric Statistic Project (required)
#   project = "acs_slb_dashboard"
#
#   ## Maximum requests per second, default value is 200
#   ratelimit = 200
#
#   ## How often the discovery API call executed (default 1m)
#   #discovery_interval = "1m"
#
#   ## Metrics to Pull (Required)
#   [[inputs.aliyuncms.metrics]]
#   ## Metrics names to be requested,
#   ## described here (per project):
https://help.aliyun.com/document_detail/28619.html?spm=a2c4g.11186623.6.690.1938ad41wg8QSq
#   names = ["InstanceActiveConnection", "InstanceNewConnection"]
#
#   ## Dimension filters for Metric (these are optional).
#   ## This allows to get additional metric dimension. If dimension is not specified it can be returned or
#   ## the data can be aggregated - it depends on particular metric,
 you can find details here:
https://help.aliyun.com/document_detail/28619.html?spm=a2c4g.11186623.6.690.1938ad41wg8QSq
#   ##
#   ## Note, that by default dimension filter includes the list of discovered objects in scope (if discovery is enabled)
#   ## Values specified here would be added into the list of discovered objects.
#   ## You can specify either single dimension:
#   #dimensions = '{"instanceId": "p-example"}'
#
#   ## Or you can specify several dimensions at once:
#   #dimensions = '[{"instanceId": "p-example"},{"instanceId": "q-example"}]'
#
#   ## Enrichment tags, can be added from discovery (if supported)
#   ## Notation is <measurement_tag_name>:<JMES query path (https://jmespath.org/tutorial.html)>
#   ## To figure out which fields are available, consult the Describe<ObjectType> API per project.
#   ## For example, for SLB: https://api.aliyun.com/#/?product=Slb&version=2014-05-
15&api=DescribeLoadBalancers&params={}&tab=MOCK&lang=GO
#   #tag_query_path = [
```

```
#   #
  "address:Address",
#   #    "name:LoadBalancerName",
#   #    "cluster_owner:Tags.Tag[?TagKey=='cs.cluster.name'].TagValue | [0]"
#   #    ]
#   ## The following tags added by default: regionId (if discovery enabled), userId, instanceId.
#
#   ## Allow metrics without discovery data, if discovery is enabled. If set to true, then metric without discovery
#   ## data would be emitted, otherwise dropped. This cane be of help, in case debugging dimension filters, or partial
coverage
#   ## of discovery scope vs monitoring scope
#   #allow_dps_without_discovery = false


# # AMQP consumer plugin
# [[inputs.amqp_consumer]]
#   ## Broker to consume from.
#   ##   deprecated in 1.7; use the brokers option
#   # url = "amqp://localhost:5672/influxdb"
#
#   ## Brokers to consume from.  If multiple brokers are specified a random broker
#   ## will be selected anytime a connection is established.  This can be
#   ## helpful for load balancing when not using a dedicated load balancer.
#   brokers
 = ["amqp://localhost:5672/influxdb"]
#
#   ## Authentication credentials for the PLAIN auth_method.
#   # username = ""
#   # password = ""
#
#   ## Name of the exchange to declare.  If unset, no exchange will be declared.
#   exchange = "telegraf"
#
#   ## Exchange type; common types are "direct", "fanout", "topic", "header", "x-consistent-hash".
#   # exchange_type = "topic"
#
#   ## If true, exchange will be passively declared.
#   # exchange_passive = false
#
#   ## Exchange durability can be either "transient" or "durable".
#   # exchange_durability = "durable"
#
#   ## Additional exchange arguments.
#   # exchange_arguments = { }
#   # exchange_arguments = {"hash_property" = "timestamp"}
#
#   ## AMQP queue name.
#   queue = "telegraf"
```

```
#
#   ## AMQP queue durability can be "transient" or "durable".
#   queue_durability = "durable"
#
#   ## If true, queue will be passively declared.
#   # queue_passive = false
#
#   ## A binding between the exchange and queue using this binding key
 is
#   ## created.  If unset, no binding is created.
#   binding_key = "#"
#
#   ## Maximum number of messages server should give to the worker.
#   # prefetch_count = 50
#
#   ## Maximum messages to read from the broker that have not been written by an
#   ## output.  For best throughput set based on the number of metrics within
#   ## each message and the size of the output's metric_batch_size.
#   ##
#   ## For example, if each message from the queue contains 10 metrics and the
#   ## output metric_batch_size is 1000, setting this to 100 will ensure that a
#   ## full batch is collected and the write is triggered immediately without
#   ## waiting until the next flush_interval.
#   # max_undelivered_messages = 1000
#
#   ## Auth method. PLAIN and EXTERNAL are supported
#   ## Using EXTERNAL requires enabling the rabbitmq_auth_mechanism_ssl plugin as
#   ## described here: https://www.rabbitmq.com/plugins.html
#   # auth_method = "PLAIN"
#
#   ## Optional TLS Config
#   # tls_ca =
 "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Content encoding for message payloads, can be set to "gzip" to or
#   ## "identity" to apply no encoding.
#   # content_encoding = "identity"
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"
```

```
# # Read Cassandra metrics through Jolokia
# [[inputs.cassandra]]
#   ## DEPRECATED: The 'cassandra' plugin is deprecated in version 1.7.0, use 'inputs.jolokia2' with the
'cassandra.conf' example configuration instead.
#   ## DEPRECATED: The cassandra plugin has been deprecated.  Please use the
#   ## jolokia2 plugin instead.
#   ##
#   ## see https://github.com/influxdata/telegraf/tree/master/plugins/inputs/jolokia2
#
#
  context = "/jolokia/read"
#   ## List of cassandra servers exposing jolokia read service
#   servers = ["myuser:mypassword@10.10.10.1:8778","10.10.10.2:8778",":8778"]
#   ## List of metrics collected on above servers
#   ## Each metric consists of a jmx path.
#   ## This will collect all heap memory usage metrics from the jvm and
#   ## ReadLatency metrics for all keyspaces and tables.
#   ## "type=Table" in the query works with Cassandra3.0. Older versions might
#   ## need to use "type=ColumnFamily"
#   metrics  = [
#     "/java.lang:type=Memory/HeapMemoryUsage",
#     "/org.apache.cassandra.metrics:type=Table,keyspace=*,scope=*,name=ReadLatency"
#   ]


# # Cisco model-driven telemetry (MDT) input plugin for IOS XR, IOS XE and NX-OS platforms
# [[inputs.cisco_telemetry_mdt]]
#  ## Telemetry transport can be "tcp" or "grpc".  TLS is only supported when
#  ## using the grpc transport.
#  transport = "grpc"
#
#  ## Address and port to host telemetry listener
#  service_address
 = ":57000"
#
#  ## Enable TLS; grpc transport only.
#  # tls_cert = "/etc/telegraf/cert.pem"
#  # tls_key = "/etc/telegraf/key.pem"
#
#  ## Enable TLS client authentication and define allowed CA certificates; grpc
#  ##  transport only.
#  # tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#
#  ## Define (for certain nested telemetry measurements with embedded tags) which fields are tags
#  # embedded_tags = ["Cisco-IOS-XR-qos-ma-oper:qos/interface-table/interface/input/service-policy-
names/service-policy-instance/statistics/class-stats/class-name"]
#
```

```
#  ## Define aliases to map telemetry encoding paths to simple measurement names
#  [inputs.cisco_telemetry_mdt.aliases]
#    ifstats = "ietf-interfaces:interfaces-state/interface/statistics"
#  ##Define Property Xformation, please refer README and https://pubhub.devnetcloud.com/media/dme-docs-9-3-3/docs/appendix/ for Model details.
#  [inputs.cisco_telemetry_mdt.dmes]
#    ModTs = "ignore"
#    CreateTs = "ignore"


# #
 Read metrics from one or many ClickHouse servers
# [[inputs.clickhouse]]
#   ## Username for authorization on ClickHouse server
#   ## example: username = "default"
#   username = "default"
#
#   ## Password for authorization on ClickHouse server
#   ## example: password = "super_secret"
#
#   ## HTTP(s) timeout while getting metrics values
#   ## The timeout includes connection time, any redirects, and reading the response body.
#   ##   example: timeout = 1s
#   # timeout = 5s
#
#   ## List of servers for metrics scraping
#   ## metrics scrape via HTTP(s) clickhouse interface
#   ## https://clickhouse.tech/docs/en/interfaces/http/
#   ##     example: servers = ["http://127.0.0.1:8123","https://custom-server.mdb.yandexcloud.net"]
#   servers         = ["http://127.0.0.1:8123"]
#
#   ## If "auto_discovery"" is "true" plugin tries to connect to all servers available in the cluster
#   ## with using same "user:password" described in "user" and "password" parameters
#   ## and get this server
 hostname list from "system.clusters" table
#   ## see
#   ## - https://clickhouse.tech/docs/en/operations/system_tables/#system-clusters
#   ## - https://clickhouse.tech/docs/en/operations/server_settings/settings/#server_settings_remote_servers
#   ## - https://clickhouse.tech/docs/en/operations/table_engines/distributed/
#   ## - https://clickhouse.tech/docs/en/operations/table_engines/replication/#creating-replicated-tables
#   ##     example: auto_discovery = false
#   # auto_discovery = true
#
#   ## Filter cluster names in "system.clusters" when "auto_discovery" is "true"
#   ## when this filter present then "WHERE cluster IN (...)" filter will apply
#   ## please use only full cluster names here, regexp and glob filters is not allowed
#   ## for "/etc/clickhouse-server/config.d/remote.xml"
#   ## <yandex>
```

```
#   ##  <remote_servers>
#   ##    <my-own-cluster>
#   ##        <shard>
#   ##          <replica><host>clickhouse-ru-1.local</host><port>9000</port></replica>
#   ##
     <replica><host>clickhouse-ru-2.local</host><port>9000</port></replica>
#   ##        </shard>
#   ##        <shard>
#   ##          <replica><host>clickhouse-eu-1.local</host><port>9000</port></replica>
#   ##          <replica><host>clickhouse-eu-2.local</host><port>9000</port></replica>
#   ##        </shard>
#   ##    </my-onw-cluster>
#   ##  </remote_servers>
#   ##
#   ## </yandex>
#   ##
#   ## example: cluster_include = ["my-own-cluster"]
#   # cluster_include = []
#
#   ## Filter cluster names in "system.clusters" when "auto_discovery" is "true"
#   ## when this filter present then "WHERE cluster NOT IN (...)" filter will apply
#   ##    example: cluster_exclude = ["my-internal-not-discovered-cluster"]
#   # cluster_exclude = []
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Read metrics
 from Google PubSub
# [[inputs.cloud_pubsub]]
#   ## Required. Name of Google Cloud Platform (GCP) Project that owns
#   ## the given PubSub subscription.
#   project = "my-project"
#
#   ## Required. Name of PubSub subscription to ingest metrics from.
#   subscription = "my-subscription"
#
#   ## Required. Data format to consume.
#   ## Each data format has its own unique set of configuration options.
#   ## Read more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"
#
```

```
#   ## Optional. Filepath for GCP credentials JSON file to authorize calls to
#   ## PubSub APIs. If not set explicitly, Telegraf will attempt to use
#   ## Application Default Credentials, which is preferred.
#   # credentials_file = "path/to/my/creds.json"
#
#   ## Optional. Number of seconds to wait before attempting to restart the
#   ## PubSub subscription receiver after an unexpected error.
#   ## If the streaming pull for a PubSub
 Subscription fails (receiver),
#   ## the agent attempts to restart receiving messages after this many seconds.
#   # retry_delay_seconds = 5
#
#   ## Optional. Maximum byte length of a message to consume.
#   ## Larger messages are dropped with an error. If less than 0 or unspecified,
#   ## treated as no limit.
#   # max_message_len = 1000000
#
#   ## Optional. Maximum messages to read from PubSub that have not been written
#   ## to an output. Defaults to 1000.
#   ## For best throughput set based on the number of metrics within
#   ## each message and the size of the output's metric_batch_size.
#   ##
#   ## For example, if each message contains 10 metrics and the output
#   ## metric_batch_size is 1000, setting this to 100 will ensure that a
#   ## full batch is collected and the write is triggered immediately without
#   ## waiting until the next flush_interval.
#   # max_undelivered_messages = 1000
#
#   ## The following are optional Subscription ReceiveSettings in PubSub.
#
 ## Read more about these values:
#   ## https://godoc.org/cloud.google.com/go/pubsub#ReceiveSettings
#
#   ## Optional. Maximum number of seconds for which a PubSub subscription
#   ## should auto-extend the PubSub ACK deadline for each message. If less than
#   ## 0, auto-extension is disabled.
#   # max_extension = 0
#
#   ## Optional. Maximum number of unprocessed messages in PubSub
#   ## (unacknowledged but not yet expired in PubSub).
#   ## A value of 0 is treated as the default PubSub value.
#   ## Negative values will be treated as unlimited.
#   # max_outstanding_messages = 0
#
#   ## Optional. Maximum size in bytes of unprocessed messages in PubSub
#   ## (unacknowledged but not yet expired in PubSub).
#   ## A value of 0 is treated as the default PubSub value.
#   ## Negative values will be treated as unlimited.
```

```
#   # max_outstanding_bytes = 0
#
#   ## Optional. Max number of goroutines a PubSub Subscription receiver can spawn
#   ## to pull messages from PubSub concurrently.
 This limit applies to each
#   ## subscription separately and is treated as the PubSub default if less than
#   ## 1. Note this setting does not limit the number of messages that can be
#   ## processed concurrently (use "max_outstanding_messages" instead).
#   # max_receiver_go_routines = 0
#
#   ## Optional. If true, Telegraf will attempt to base64 decode the
#   ## PubSub message data before parsing
#   # base64_data = false


# # Google Cloud Pub/Sub Push HTTP listener
# [[inputs.cloud_pubsub_push]]
#   ## Address and port to host HTTP listener on
#   service_address = ":8080"
#
#   ## Application secret to verify messages originate from Cloud Pub/Sub
#   # token = ""
#
#   ## Path to listen to.
#   # path = "/"
#
#   ## Maximum duration before timing out read of the request
#   # read_timeout = "10s"
#   ## Maximum duration before timing out write of the response. This should be set to a value
#   ## large enough that you can send at least 'metric_batch_size' number of messages
 within the
#   ## duration.
#   # write_timeout = "10s"
#
#   ## Maximum allowed http request body size in bytes.
#   ## 0 means to use the default of 524,288,00 bytes (500 mebibytes)
#   # max_body_size = "500MB"
#
#   ## Whether to add the pubsub metadata, such as message attributes and subscription as a tag.
#   # add_meta = false
#
#   ## Optional. Maximum messages to read from PubSub that have not been written
#   ## to an output. Defaults to 1000.
#   ## For best throughput set based on the number of metrics within
#   ## each message and the size of the output's metric_batch_size.
#   ##
#   ## For example, if each message contains 10 metrics and the output
#   ## metric_batch_size is 1000, setting this to 100 will ensure that a
```

```
#   ## full batch is collected and the write is triggered immediately without
#   ## waiting until the next flush_interval.
#   # max_undelivered_messages = 1000
#
#   ## Set one or more allowed client CA certificate file names to
#   ## enable mutually
 authenticated TLS connections
#   # tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#
#   ## Add service certificate and key
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"


# # Ingests files in a directory and then moves them to a target directory.
# [[inputs.directory_monitor]]
#   ## The directory to monitor and read files from.
#   directory = ""
#   #
#   ## The directory to move finished files to.
#   finished_directory = ""
#   #
#   ## The directory to move files to upon file error.
#   ## If not provided, erroring files will stay in the monitored directory.
#   # error_directory = ""
#   #
#   ## The amount of time a file is allowed to sit in the directory before it is picked up.
#   ## This
 time can generally be low but if you choose to have a very large file written to the directory and it's potentially
slow,
#   ## set this higher so that the plugin will wait until the file is fully copied to the directory.
#   # directory_duration_threshold = "50ms"
#   #
#   ## A list of the only file names to monitor, if necessary. Supports regex. If left blank, all files are ingested.
#   # files_to_monitor = ["^.*\.csv"]
#   #
#   ## A list of files to ignore, if necessary. Supports regex.
#   # files_to_ignore = [".DS_Store"]
#   #
#   ## Maximum lines of the file to process that have not yet be written by the
#   ## output. For best throughput set to the size of the output's metric_buffer_limit.
#   ## Warning: setting this number higher than the output's metric_buffer_limit can cause dropped metrics.
```

```
#   # max_buffered_metrics = 10000
#   #
#   ## The maximum amount of file paths to queue up for processing at once, before waiting until files are processed
to find more files.
#
  ## Lowering this value will result in *slightly* less memory use, with a potential sacrifice in speed efficiency, if
absolutely necessary.
#   # file_queue_size = 100000
#   #
#   ## Name a tag containing the name of the file the data was parsed from.  Leave empty
#   ## to disable. Cautious when file name variation is high, this can increase the cardinality
#   ## significantly. Read more about cardinality here:
#   ## https://docs.influxdata.com/influxdb/cloud/reference/glossary/#series-cardinality
#   # file_tag = ""
#   #
#   ## The dataformat to be read from the files.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   ## NOTE: We currently only support parsing newline-delimited JSON. See the format here:
https://github.com/ndjson/ndjson-spec
#   data_format = "influx"


# # Read logging output from the Docker engine
# [[inputs.docker_log]]
#
  ## Docker Endpoint
#   ##   To use TCP, set endpoint = "tcp://[ip]:[port]"
#   ##   To use environment variables (ie, docker-machine), set endpoint = "ENV"
#   # endpoint = "unix:///var/run/docker.sock"
#
#   ## When true, container logs are read from the beginning; otherwise
#   ## reading begins at the end of the log.
#   # from_beginning = false
#
#   ## Timeout for Docker API calls.
#   # timeout = "5s"
#
#   ## Containers to include and exclude. Globs accepted.
#   ## Note that an empty array for both will include all containers
#   # container_name_include = []
#   # container_name_exclude = []
#
#   ## Container states to include and exclude. Globs accepted.
#   ## When empty only containers in the "running" state will be captured.
#   # container_state_include = []
#   # container_state_exclude = []
```

```
#
#   ## docker labels to include and exclude as tags.  Globs accepted.
#   ## Note that an empty array for both will include all labels as tags
#   # docker_label_include
 = []
#   # docker_label_exclude = []
#
#   ## Set the source tag for the metrics to the container ID hostname, eg first 12 chars
#   source_tag = false
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # Azure Event Hubs service input plugin
# [[inputs.eventhub_consumer]]
#   ## The default behavior is to create a new Event Hub client from environment variables.
#   ## This requires one of the following sets of environment variables to be set:
#   ##
#   ## 1) Expected Environment Variables:
#   ##    - "EVENTHUB_CONNECTION_STRING"
#   ##
#   ## 2) Expected Environment Variables:
#   ##    - "EVENTHUB_NAMESPACE"
#   ##    - "EVENTHUB_NAME"
#   ##    - "EVENTHUB_KEY_NAME"
#   ##    - "EVENTHUB_KEY_VALUE"
#
#   ## 3) Expected Environment Variables:
#   ##    - "EVENTHUB_NAMESPACE"
#   ##    - "EVENTHUB_NAME"
#
  ##    - "AZURE_TENANT_ID"
#   ##    - "AZURE_CLIENT_ID"
#   ##    - "AZURE_CLIENT_SECRET"
#
#   ## Uncommenting the option below will create an Event Hub client based solely on the connection string.
#   ## This can either be the associated environment variable or hard coded directly.
#   ## If this option is uncommented, environment variables will be ignored.
#   ## Connection string should contain EventHubName (EntityPath)
#   # connection_string = ""
#
#   ## Set persistence directory to a valid folder to use a file persister instead of an in-memory persister
#   # persistence_dir = ""
```

```
#
#   ## Change the default consumer group
#   # consumer_group = ""
#
#   ## By default the event hub receives all messages present on the broker, alternative modes can be set below.
#   ## The timestamp should be in https://github.com/toml-lang/toml#offset-date-time format (RFC 3339).
#   ## The 3 options below only apply if no valid persister is read from memory or file (e.g. first run).
#
  # from_timestamp =
#   # latest = true
#
#   ## Set a custom prefetch count for the receiver(s)
#   # prefetch_count = 1000
#
#   ## Add an epoch to the receiver(s)
#   # epoch = 0
#
#   ## Change to set a custom user agent, "telegraf" is used by default
#   # user_agent = "telegraf"
#
#   ## To consume from a specific partition, set the partition_ids option.
#   ## An empty array will result in receiving from all partitions.
#   # partition_ids = ["0","1"]
#
#   ## Max undelivered messages
#   # max_undelivered_messages = 1000
#
#   ## Set either option below to true to use a system property as timestamp.
#   ## You have the choice between EnqueuedTime and IoTHubEnqueuedTime.
#   ## It is recommended to use this setting when the data itself has no timestamp.
#   # enqueued_time_as_ts = true
#   # iot_hub_enqueued_time_as_ts = true
#
#   ## Tags or fields to create from keys present in the application property bag.
#   ## These could for example be set by message enrichments in Azure
 IoT Hub.
#   # application_property_tags = []
#   # application_property_fields = []
#
#   ## Tag or field name to use for metadata
#   ## By default all metadata is disabled
#   # sequence_number_field = "SequenceNumber"
#   # enqueued_time_field = "EnqueuedTime"
#   # offset_field = "Offset"
#   # partition_id_tag = "PartitionID"
#   # partition_key_tag = "PartitionKey"
#   # iot_hub_device_connection_id_tag = "IoTHubDeviceConnectionID"
#   # iot_hub_auth_generation_id_tag = "IoTHubAuthGenerationID"
```

```
#   # iot_hub_connection_auth_method_tag = "IoTHubConnectionAuthMethod"
#   # iot_hub_connection_module_id_tag = "IoTHubConnectionModuleID"
#   # iot_hub_enqueued_time_field = "IoTHubEnqueuedTime"
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"


# # Run executable as long-running input
 plugin
# [[inputs.execd]]
#   ## Program to run as daemon
#   command = ["telegraf-smartctl", "-d", "/dev/sda"]
#
#   ## Define how the process is signaled on each collection interval.
#   ## Valid values are:
#   ##   "none"   : Do not signal anything.
#   ##              The process must output metrics by itself.
#   ##   "STDIN"   : Send a newline on STDIN.
#   ##   "SIGHUP"  : Send a HUP signal. Not available on Windows.
#   ##   "SIGUSR1" : Send a USR1 signal. Not available on Windows.
#   ##   "SIGUSR2" : Send a USR2 signal. Not available on Windows.
#   signal = "none"
#
#   ## Delay before the process is restarted after an unexpected termination
#   restart_delay = "10s"
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"


# # gNMI telemetry input plugin
# [[inputs.gnmi]]
#  ##
 Address and port of the gNMI GRPC server
#  addresses = ["10.49.234.114:57777"]
#
#  ## define credentials
#  username = "cisco"
#  password = "cisco"
#
#  ## gNMI encoding requested (one of: "proto", "json", "json_ietf", "bytes")
```

```
#  # encoding = "proto"
#
#  ## redial in case of failures after
#  redial = "10s"
#
#  ## enable client-side TLS and define CA to authenticate the device
#  # enable_tls = true
#  # tls_ca = "/etc/telegraf/ca.pem"
#  # insecure_skip_verify = true
#
#  ## define client-side TLS certificate & key to authenticate to the device
#  # tls_cert = "/etc/telegraf/cert.pem"
#  # tls_key = "/etc/telegraf/key.pem"
#
#  ## gNMI subscription prefix (optional, can usually be left empty)
#  ## See: https://github.com/openconfig/reference/blob/master/rpc/gnmi/gnmi-specification.md#222-paths
#  # origin = ""
#  # prefix = ""
#  # target = ""
#
#  ## Define additional aliases to map telemetry encoding paths to simple measurement names
#  #[inputs.gnmi.aliases]
#  #  ifcounters
 = "openconfig:/interfaces/interface/state/counters"
#
#  [[inputs.gnmi.subscription]]
#    ## Name of the measurement that will be emitted
#    name = "ifcounters"
#
#    ## Origin and path of the subscription
#    ## See: https://github.com/openconfig/reference/blob/master/rpc/gnmi/gnmi-specification.md#222-paths
#    ##
#    ## origin usually refers to a (YANG) data model implemented by the device
#    ## and path to a specific substructure inside it that should be subscribed to (similar to an XPath)
#    ## YANG models can be found e.g. here: https://github.com/YangModels/yang/tree/master/vendor/cisco/xr
#    origin = "openconfig-interfaces"
#    path = "/interfaces/interface/state/counters"
#
#    # Subscription mode (one of: "target_defined", "sample", "on_change") and interval
#    subscription_mode = "sample"
#    sample_interval = "10s"
#
#    ## Suppress redundant transmissions when measured values are unchanged
#    # suppress_redundant = false
#
#    ## If suppression is enabled, send updates
 at least every X seconds anyway
#    # heartbeat_interval = "60s"
```

```
# # Accept metrics over InfluxDB 1.x HTTP API
# [[inputs.http_listener]]
#   ## Address and port to host InfluxDB listener on
#   service_address = ":8186"
#
#   ## maximum duration before timing out read of the request
#   read_timeout = "10s"
#   ## maximum duration before timing out write of the response
#   write_timeout = "10s"
#
#   ## Maximum allowed HTTP request body size in bytes.
#   ## 0 means to use the default of 32MiB.
#   max_body_size = "32MiB"
#
#   ## Optional tag name used to store the database.
#   ## If the write has a database in the query string then it will be kept in this tag name.
#   ## This tag can be used in downstream outputs.
#   ## The default value of nothing means it will be off and the database will not be recorded.
#   # database_tag = ""
#
#   ## If set the retention policy specified in the write query will be added as
#   ## the value of this tag name.
#   # retention_policy_tag
 = ""
#
#   ## Set one or more allowed client CA certificate file names to
#   ## enable mutually authenticated TLS connections
#   tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#
#   ## Add service certificate and key
#   tls_cert = "/etc/telegraf/cert.pem"
#   tls_key = "/etc/telegraf/key.pem"
#
#   ## Optional username and password to accept for HTTP basic authentication.
#   ## You probably want to make sure you have TLS configured above for this.
#   # basic_username = "foobar"
#   # basic_password = "barfoo"


# # Generic HTTP write listener
# [[inputs.http_listener_v2]]
#   ## Address and port to host HTTP listener on
#   service_address = ":8080"
#
#   ## Path to listen to.
#   ## This option is deprecated and only available for backward-compatibility. Please use paths instead.
```

```
#   # path = ""
#
#   ## Paths to listen to.
#   # paths = ["/telegraf"]
#
#   ## Save path as http_listener_v2_path tag if set to true
#   # path_tag = false
#
#   ## HTTP methods to accept.
#
  # methods = ["POST", "PUT"]
#
#   ## maximum duration before timing out read of the request
#   # read_timeout = "10s"
#   ## maximum duration before timing out write of the response
#   # write_timeout = "10s"
#
#   ## Maximum allowed http request body size in bytes.
#   ## 0 means to use the default of 524,288,000 bytes (500 mebibytes)
#   # max_body_size = "500MB"
#
#   ## Part of the request to consume.  Available options are "body" and
#   ## "query".
#   # data_source = "body"
#
#   ## Set one or more allowed client CA certificate file names to
#   ## enable mutually authenticated TLS connections
#   # tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#
#   ## Add service certificate and key
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
#   ## Optional username and password to accept for HTTP basic authentication.
#   ## You probably want to make sure you have TLS configured above for this.
#   # basic_username = "foobar"
#   # basic_password
  = "barfoo"
#
#   ## Optional setting to map http headers into tags
#   ## If the http header is not present on the request, no corresponding tag will be added
#   ## If multiple instances of the http header are present, only the first value will be used
#   # http_header_tags = {"HTTP_HEADER" = "TAG_NAME"}
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
```

```
#   data_format = "influx"


# # Accept metrics over InfluxDB 1.x HTTP API
# [[inputs.influxdb_listener]]
#   ## Address and port to host InfluxDB listener on
#   service_address = ":8186"
#
#   ## maximum duration before timing out read of the request
#   read_timeout = "10s"
#   ## maximum duration before timing out write of the response
#   write_timeout = "10s"
#
#   ## Maximum allowed HTTP request body size in bytes.
#   ## 0 means to use the default of
 32MiB.
#   max_body_size = "32MiB"
#
#   ## Optional tag name used to store the database.
#   ## If the write has a database in the query string then it will be kept in this tag name.
#   ## This tag can be used in downstream outputs.
#   ## The default value of nothing means it will be off and the database will not be recorded.
#   # database_tag = ""
#
#   ## If set the retention policy specified in the write query will be added as
#   ## the value of this tag name.
#   # retention_policy_tag = ""
#
#   ## Set one or more allowed client CA certificate file names to
#   ## enable mutually authenticated TLS connections
#   tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#
#   ## Add service certificate and key
#   tls_cert = "/etc/telegraf/cert.pem"
#   tls_key = "/etc/telegraf/key.pem"
#
#   ## Optional username and password to accept for HTTP basic authentication.
#   ## You probably want to make sure you have TLS configured above for this.
#   # basic_username = "foobar"
#   #
 basic_password = "barfoo"


# # Accept metrics over InfluxDB 2.x HTTP API
# [[inputs.influxdb_v2_listener]]
#   ## Address and port to host InfluxDB listener on
#   ## (Double check the port. Could be 9999 if using OSS Beta)
#   service_address = ":8086"
```

```
#
#   ## Maximum allowed HTTP request body size in bytes.
#   ## 0 means to use the default of 32MiB.
#   # max_body_size = "32MiB"
#
#   ## Optional tag to determine the bucket.
#   ## If the write has a bucket in the query string then it will be kept in this tag name.
#   ## This tag can be used in downstream outputs.
#   ## The default value of nothing means it will be off and the database will not be recorded.
#   # bucket_tag = ""
#
#   ## Set one or more allowed client CA certificate file names to
#   ## enable mutually authenticated TLS connections
#   # tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#
#   ## Add service certificate and key
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
#
  ## Optional token to accept for HTTP authentication.
#   ## You probably want to make sure you have TLS configured above for this.
#   # token = "some-long-shared-secret-token"


# # Intel Performance Monitoring Unit plugin exposes Intel PMU metrics available through Linux Perf subsystem
# [[inputs.intel_pmu]]
#   ## List of filesystem locations of JSON files that contain PMU event definitions.
#   event_definitions = ["/var/cache/pmu/GenuineIntel-6-55-4-core.json", "/var/cache/pmu/GenuineIntel-6-55-4-
uncore.json"]
#
#   ## List of core events measurement entities. There can be more than one core_events sections.
#   [[inputs.intel_pmu.core_events]]
#     ## List of events to be counted. Event names shall match names from event_definitions files.
#     ## Single entry can contain name of the event (case insensitive) augmented with config options and perf
modifiers.
#     ## If absent, all core events from provided event_definitions are counted skipping unresolvable ones.
#     events
 = ["INST_RETIRED.ANY", "CPU_CLK_UNHALTED.THREAD_ANY:config1=0x4043200000000k"]
#
#     ## Limits the counting of events to core numbers specified.
#     ## If absent, events are counted on all cores.
#     ## Single "0", multiple "0,1,2" and range "0-2" notation is supported for each array element.
#     ##   example: cores = ["0,2", "4", "12-16"]
#     cores = ["0"]
#
#     ## Indicator that plugin shall attempt to run core_events.events as a single perf group.
#     ## If absent or set to false, each event is counted individually. Defaults to false.
```

```
#     ## This limits the number of events that can be measured to a maximum of available hardware counters per
core.
#     ## Could vary depending on type of event, use of fixed counters.
#     # perf_group = false
#
#     ## Optionally set a custom tag value that will be added to every measurement within this events group.
#     ## Can be applied to any group of events, unrelated to perf_group setting.
#     # events_tag = ""
#
#
 ## List of uncore event measurement entities. There can be more than one uncore_events sections.
#   [[inputs.intel_pmu.uncore_events]]
#     ## List of events to be counted. Event names shall match names from event_definitions files.
#     ## Single entry can contain name of the event (case insensitive) augmented with config options and perf
modifiers.
#     ## If absent, all uncore events from provided event_definitions are counted skipping unresolvable ones.
#     events = ["UNC_CHA_CLOCKTICKS", "UNC_CHA_TOR_OCCUPANCY.IA_MISS"]
#
#     ## Limits the counting of events to specified sockets.
#     ## If absent, events are counted on all sockets.
#     ## Single "0", multiple "0,1" and range "0-1" notation is supported for each array element.
#     ##   example: sockets = ["0-2"]
#     sockets = ["0"]
#
#     ## Indicator that plugin shall provide an aggregated value for multiple units of same type distributed in an
uncore.
#     ## If absent or set to false, events for each unit are exposed
 as separate metric. Defaults to false.
#     # aggregate_uncore_units = false
#
#     ## Optionally set a custom tag value that will be added to every measurement within this events group.
#     # events_tag = ""


# # Intel Resource Director Technology plugin
# [[inputs.intel_rdt]]
#  ## Optionally set sampling interval to Nx100ms.
#  ## This value is propagated to pqos tool. Interval format is defined by pqos itself.
#  ## If not provided or provided 0, will be set to 10 = 10x100ms = 1s.
#  # sampling_interval = "10"
#
#  ## Optionally specify the path to pqos executable.
#  ## If not provided, auto discovery will be performed.
#  # pqos_path = "/usr/local/bin/pqos"
#
#  ## Optionally specify if IPC and LLC_Misses metrics shouldn't be propagated.
#  ## If not provided, default value is false.
#  # shortened_metrics = false
```

```
#
#  ## Specify the list of groups of CPU core(s) to be provided as pqos input.
#  ## Mandatory if processes aren't set and forbidden if processes are specified.
#
  ## e.g. ["0-3", "4,5,6"] or ["1-3,4"]
#  # cores = ["0-3"]
#
#  ## Specify the list of processes for which Metrics will be collected.
#  ## Mandatory if cores aren't set and forbidden if cores are specified.
#  ## e.g. ["qemu", "pmd"]
#  # processes = ["process"]
#
#  ## Specify if the pqos process should be called with sudo.
#  ## Mandatory if the telegraf process does not run as root.
#  # use_sudo = false


# # Read JTI OpenConfig Telemetry from listed sensors
# [[inputs.jti_openconfig_telemetry]]
#   ## List of device addresses to collect telemetry from
#   servers = ["localhost:1883"]
#
#   ## Authentication details. Username and password are must if device expects
#   ## authentication. Client ID must be unique when connecting from multiple instances
#   ## of telegraf to the same device
#   username = "user"
#   password = "pass"
#   client_id = "telegraf"
#
#   ## Frequency to get data
#   sample_frequency = "1000ms"
#
#   ## Sensors to subscribe for
#   ## A identifier
 for each sensor can be provided in path by separating with space
#   ## Else sensor path will be used as identifier
#   ## When identifier is used, we can provide a list of space separated sensors.
#   ## A single subscription will be created with all these sensors and data will
#   ## be saved to measurement with this identifier name
#   sensors = [
#    "/interfaces/",
#    "collection /components/ /lldp",
#   ]
#
#   ## We allow specifying sensor group level reporting rate. To do this, specify the
#   ## reporting rate in Duration at the beginning of sensor paths / collection
#   ## name. For entries without reporting rate, we use configured sample frequency
#   sensors = [
```

```
#    "1000ms customReporting /interfaces /lldp",
#    "2000ms collection /components",
#    "/interfaces",
#   ]
#
#   ## Optional TLS Config
#   # enable_tls = true
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip
 chain & host verification
#   # insecure_skip_verify = false
#
#   ## Delay between retry attempts of failed RPC calls or streams. Defaults to 1000ms.
#   ## Failed streams/calls will not be retried if 0 is provided
#   retry_delay = "1000ms"
#
#   ## To treat all string values as tags, set this to true
#   str_as_tags = false


# # Read metrics from Kafka topics
# [[inputs.kafka_consumer]]
#   ## Kafka brokers.
#   brokers = ["localhost:9092"]
#
#   ## Topics to consume.
#   topics = ["telegraf"]
#
#   ## When set this tag will be added to all metrics with the topic as the value.
#   # topic_tag = ""
#
#   ## Optional Client id
#   # client_id = "Telegraf"
#
#   ## Set the minimal supported Kafka version.  Setting this enables the use of new
#   ## Kafka features and APIs.  Must be 0.10.2.0 or greater.
#   ##   ex: version = "1.1.0"
#   # version = ""
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
  ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
```

```
#
#   ## SASL authentication credentials.  These settings should typically be used
#   ## with TLS encryption enabled
#   # sasl_username = "kafka"
#   # sasl_password = "secret"
#
#   ## Optional SASL:
#   ## one of: OAUTHBEARER, PLAIN, SCRAM-SHA-256, SCRAM-SHA-512, GSSAPI
#   ## (defaults to PLAIN)
#   # sasl_mechanism = ""
#
#   ## used if sasl_mechanism is GSSAPI (experimental)
#   # sasl_gssapi_service_name = ""
#   # ## One of: KRB5_USER_AUTH and KRB5_KEYTAB_AUTH
#   # sasl_gssapi_auth_type = "KRB5_USER_AUTH"
#   # sasl_gssapi_kerberos_config_path = "/"
#   # sasl_gssapi_realm = "realm"
#   # sasl_gssapi_key_tab_path = ""
#   # sasl_gssapi_disable_pafxfast = false
#
#   ## used if sasl_mechanism is OAUTHBEARER (experimental)
#   # sasl_access_token = ""
#
#   ## SASL protocol version.  When connecting to Azure EventHub set to 0.
#   # sasl_version = 1
#
#   # Disable Kafka metadata
 full fetch
#   # metadata_full = false
#
#   ## Name of the consumer group.
#   # consumer_group = "telegraf_metrics_consumers"
#
#   ## Compression codec represents the various compression codecs recognized by
#   ## Kafka in messages.
#   ##  0 : None
#   ##  1 : Gzip
#   ##  2 : Snappy
#   ##  3 : LZ4
#   ##  4 : ZSTD
#    # compression_codec = 0
#
#   ## Initial offset position; one of "oldest" or "newest".
#   # offset = "oldest"
#
#   ## Consumer group partition assignment strategy; one of "range", "roundrobin" or "sticky".
#   # balance_strategy = "range"
#
```

```
#   ## Maximum length of a message to consume, in bytes (default 0/unlimited);
#   ## larger messages are dropped
#   max_message_len = 1000000
#
#   ## Maximum messages to read from the broker that have not been written by an
#   ## output.  For best throughput set based on the number of metrics within
#   ## each message and the size of the output's metric_batch_size.
#   ##
#   ## For example, if each message from the
 queue contains 10 metrics and the
#   ## output metric_batch_size is 1000, setting this to 100 will ensure that a
#   ## full batch is collected and the write is triggered immediately without
#   ## waiting until the next flush_interval.
#   # max_undelivered_messages = 1000
#
#   ## Maximum amount of time the consumer should take to process messages. If
#   ## the debug log prints messages from sarama about 'abandoning subscription
#   ## to [topic] because consuming was taking too long', increase this value to
#   ## longer than the time taken by the output plugin(s).
#   ##
#   ## Note that the effective timeout could be between 'max_processing_time' and
#   ## '2 * max_processing_time'.
#   # max_processing_time = "100ms"
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"


# # Read metrics
 from Kafka topic(s)
# [[inputs.kafka_consumer_legacy]]
#   ## DEPRECATED: The 'kafka_consumer_legacy' plugin is deprecated in version 1.4.0, use
'inputs.kafka_consumer' instead, NOTE: 'kafka_consumer' only supports Kafka v0.8+.
#   ## topic(s) to consume
#   topics = ["telegraf"]
#
#   ## an array of Zookeeper connection strings
#   zookeeper_peers = ["localhost:2181"]
#
#   ## Zookeeper Chroot
#   zookeeper_chroot = ""
#
#   ## the name of the consumer group
#   consumer_group = "telegraf_metrics_consumers"
#
```

```
#   ## Offset (must be either "oldest" or "newest")
#   offset = "oldest"
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"
#
#   ## Maximum length of a message to consume, in bytes (default 0/unlimited);
#   ## larger messages are dropped
#   max_message_len = 65536


# # Configuration
 for the AWS Kinesis input.
# [[inputs.kinesis_consumer]]
#   ## Amazon REGION of kinesis endpoint.
#   region = "ap-southeast-2"
#
#   ## Amazon Credentials
#   ## Credentials are loaded in the following order
#   ## 1) Web identity provider credentials via STS if role_arn and web_identity_token_file are specified
#   ## 2) Assumed credentials via STS if role_arn is specified
#   ## 3) explicit credentials from 'access_key' and 'secret_key'
#   ## 4) shared profile from 'profile'
#   ## 5) environment variables
#   ## 6) shared credentials file
#   ## 7) EC2 Instance Profile
#   # access_key = ""
#   # secret_key = ""
#   # token = ""
#   # role_arn = ""
#   # web_identity_token_file = ""
#   # role_session_name = ""
#   # profile = ""
#   # shared_credential_file = ""
#
#   ## Endpoint to make request against, the correct endpoint is automatically
#   ## determined and this option should only be set if you wish to override the
#   ## default.
#   ##   ex: endpoint_url = "http://localhost:8000"
#
  # endpoint_url = ""
#
#   ## Kinesis StreamName must exist prior to starting telegraf.
#   streamname = "StreamName"
#
```

```
#   ## Shard iterator type (only 'TRIM_HORIZON' and 'LATEST' currently supported)
#   # shard_iterator_type = "TRIM_HORIZON"
#
#   ## Maximum messages to read from the broker that have not been written by an
#   ## output.  For best throughput set based on the number of metrics within
#   ## each message and the size of the output's metric_batch_size.
#   ##
#   ## For example, if each message from the queue contains 10 metrics and the
#   ## output metric_batch_size is 1000, setting this to 100 will ensure that a
#   ## full batch is collected and the write is triggered immediately without
#   ## waiting until the next flush_interval.
#   # max_undelivered_messages = 1000
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#
  data_format = "influx"
#
#   ##
#   ## The content encoding of the data from kinesis
#   ## If you are processing a cloudwatch logs kinesis stream then set this to "gzip"
#   ## as AWS compresses cloudwatch log data before it is sent to kinesis (aws
#   ## also base64 encodes the zip byte data before pushing to the stream.  The base64 decoding
#   ## is done automatically by the golang sdk, as data is read from kinesis)
#   ##
#   # content_encoding = "identity"
#
#   ## Optional
#   ## Configuration for a dynamodb checkpoint
#   [inputs.kinesis_consumer.checkpoint_dynamodb]
#  ## unique name for this consumer
#  app_name = "default"
#  table_name = "default"


# # Listener capable of handling KNX bus messages provided through a KNX-IP Interface.
# [[inputs.knx_listener]]
#   ## Type of KNX-IP interface.
#   ## Can be either "tunnel" or "router".
#   # service_type = "tunnel"
#
#   ## Address of the KNX-IP interface.
#   service_address
 = "localhost:3671"
#
#   ## Measurement definition(s)
```

```
#   # [[inputs.knx_listener.measurement]]
#   #   ## Name of the measurement
#   #   name = "temperature"
#   #   ## Datapoint-Type (DPT) of the KNX messages
#   #   dpt = "9.001"
#   #   ## List of Group-Addresses (GAs) assigned to the measurement
#   #   addresses = ["5/5/1"]
#
#   # [[inputs.knx_listener.measurement]]
#   #   name = "illumination"
#   #   dpt = "9.004"
#   #   addresses = ["5/5/3"]


# # Read metrics off Arista LANZ, via socket
# [[inputs.lanz]]
#   ## URL to Arista LANZ endpoint
#   servers = [
#     "tcp://127.0.0.1:50001"
#   ]


# # Stream and parse log file(s).
# [[inputs.logparser]]
#   ## DEPRECATED: The 'logparser' plugin is deprecated in version 1.15.0, use 'inputs.tail' with 'grok' data format
instead.
#   ## Log files to parse.
#   ## These accept standard unix glob matching rules, but with the addition of
#   ## ** as a "super asterisk". ie:
#   ##   /var/log/**.log     -> recursively find all
 .log files in /var/log
#   ##   /var/log/*/*.log    -> find all .log files with a parent dir in /var/log
#   ##   /var/log/apache.log -> only tail the apache log file
#   files = ["/var/log/apache/access.log"]
#
#   ## Read files that currently exist from the beginning. Files that are created
#   ## while telegraf is running (and that match the "files" globs) will always
#   ## be read from the beginning.
#   from_beginning = false
#
#   ## Method used to watch for file updates.  Can be either "inotify" or "poll".
#   # watch_method = "inotify"
#
#   ## Parse logstash-style "grok" patterns:
#   [inputs.logparser.grok]
#     ## This is a list of patterns to check the given log file(s) for.
#     ## Note that adding patterns here increases processing time. The most
#     ## efficient configuration is to have one pattern per logparser.
```

```
#     ## Other common built-in patterns are:
#     ##   %{COMMON_LOG_FORMAT}   (plain apache & nginx access logs)
#     ##   %{COMBINED_LOG_FORMAT} (access
 logs + referrer & agent)
#     patterns = ["%{COMBINED_LOG_FORMAT}"]
#
#     ## Name of the outputted measurement name.
#     measurement = "apache_access_log"
#
#     ## Full path(s) to custom pattern files.
#     custom_pattern_files = []
#
#     ## Custom patterns can also be defined here. Put one pattern per line.
#     custom_patterns = '''
#     '''
#
#     ## Timezone allows you to provide an override for timestamps that
#     ## don't already include an offset
#     ## e.g. 04/06/2016 12:41:45 data one two 5.43µs
#     ##
#     ## Default: "" which renders UTC
#     ## Options are as follows:
#     ##   1. Local             -- interpret based on machine localtime
#     ##   2. "Canada/Eastern"  -- Unix TZ values like those found in
https://en.wikipedia.org/wiki/List_of_tz_database_time_zones
#     ##   3. UTC               -- or blank/unspecified, will return timestamp in UTC
#     # timezone = "Canada/Eastern"
#
#  ## When set to "disable", timestamp will not incremented if
 there is a
#  ## duplicate.
#     # unique_timestamp = "auto"


# # Read metrics from MQTT topic(s)
# [[inputs.mqtt_consumer]]
#   ## Broker URLs for the MQTT server or cluster.  To connect to multiple
#   ## clusters or standalone servers, use a separate plugin instance.
#   ##   example: servers = ["tcp://localhost:1883"]
#   ##            servers = ["ssl://localhost:1883"]
#   ##            servers = ["ws://localhost:1883"]
#   servers = ["tcp://127.0.0.1:1883"]
#   ## Topics that will be subscribed to.
#   topics = [
#     "telegraf/host01/cpu",
#     "telegraf/+/mem",
#     "sensors/#",
#   ]
```

```
#   # topic_fields = "_/_/_/temperature"
#   ## The message topic will be stored in a tag specified by this value.  If set
#   ## to the empty string no topic tag will be created.
#   # topic_tag = "topic"
#   ## QoS policy for messages
#   ##   0 = at most once
#   ##   1 = at least once
#   ##   2 = exactly once
#   ##
#   ## When using a QoS of 1 or 2, you should enable persistent_session
 to allow
#   ## resuming unacknowledged messages.
#   # qos = 0
#   ## Connection timeout for initial connection in seconds
#   # connection_timeout = "30s"
#   ## Maximum messages to read from the broker that have not been written by an
#   ## output.  For best throughput set based on the number of metrics within
#   ## each message and the size of the output's metric_batch_size.
#   ##
#   ## For example, if each message from the queue contains 10 metrics and the
#   ## output metric_batch_size is 1000, setting this to 100 will ensure that a
#   ## full batch is collected and the write is triggered immediately without
#   ## waiting until the next flush_interval.
#   # max_undelivered_messages = 1000
#   ## Persistent session disables clearing of the client session on connection.
#   ## In order for this option to work you must also set client_id to identify
#   ## the client.  To receive messages that arrived while the client is offline,
#   ## also set the qos option to 1 or 2 and
 don't forget to also set the QoS when
#   ## publishing.
#   # persistent_session = false
#   ## If unset, a random client ID will be generated.
#   # client_id = ""
#   ## Username and password to connect MQTT server.
#   # username = "telegraf"
#   # password = "metricsmetricsmetricsmetrics"
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"
#   ## Enable extracting tag values from MQTT topics
```

```
#   ## _ denotes an ignored entry in the topic path
#   ## [[inputs.mqtt_consumer.topic_parsing]]
#   ##  topic = ""
#   ##  measurement = ""
#   ##  tags = ""
#   ##  fields
 = ""
#   ## [inputs.mqtt_consumer.topic_parsing.types]
#   ##


# # Read metrics from NATS subject(s)
# [[inputs.nats_consumer]]
#   ## urls of NATS servers
#   servers = ["nats://localhost:4222"]
#
#   ## subject(s) to consume
#   subjects = ["telegraf"]
#
#   ## name a queue group
#   queue_group = "telegraf_consumers"
#
#   ## Optional credentials
#   # username = ""
#   # password = ""
#
#   ## Optional NATS 2.0 and NATS NGS compatible user credentials
#   # credentials = "/etc/telegraf/nats.creds"
#
#   ## Use Transport Layer Security
#   # secure = false
#
#   ## Optional TLS Config
#   # tls_ca = "/etc/telegraf/ca.pem"
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## Sets the limits for pending msgs and bytes for each subscription
#   ## These shouldn't need to be adjusted except in very high throughput scenarios
#   # pending_message_limit = 65536
#
  # pending_bytes_limit = 67108864
#
#   ## Maximum messages to read from the broker that have not been written by an
#   ## output.  For best throughput set based on the number of metrics within
#   ## each message and the size of the output's metric_batch_size.
```

```
#   ##
#   ## For example, if each message from the queue contains 10 metrics and the
#   ## output metric_batch_size is 1000, setting this to 100 will ensure that a
#   ## full batch is collected and the write is triggered immediately without
#   ## waiting until the next flush_interval.
#   # max_undelivered_messages = 1000
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"


# # Read NSQ topic for metrics.
# [[inputs.nsq_consumer]]
#   ## Server option still works but is deprecated, we just prepend it to the nsqd array.
#
 # server = "localhost:4150"
#
#   ## An array representing the NSQD TCP HTTP Endpoints
#   nsqd = ["localhost:4150"]
#
#   ## An array representing the NSQLookupd HTTP Endpoints
#   nsqlookupd = ["localhost:4161"]
#   topic = "telegraf"
#   channel = "consumer"
#   max_in_flight = 100
#
#   ## Maximum messages to read from the broker that have not been written by an
#   ## output.  For best throughput set based on the number of metrics within
#   ## each message and the size of the output's metric_batch_size.
#   ##
#   ## For example, if each message from the queue contains 10 metrics and the
#   ## output metric_batch_size is 1000, setting this to 100 will ensure that a
#   ## full batch is collected and the write is triggered immediately without
#   ## waiting until the next flush_interval.
#   # max_undelivered_messages = 1000
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#
   data_format = "influx"


# # Receive OpenTelemetry traces, metrics, and logs over gRPC
```

```
# [[inputs.opentelemetry]]
#   ## Override the default (0.0.0.0:4317) destination OpenTelemetry gRPC service
#   ## address:port
#   # service_address = "0.0.0.0:4317"
#
#   ## Override the default (5s) new connection timeout
#   # timeout = "5s"
#
#   ## Override the default (prometheus-v1) metrics schema.
#   ## Supports: "prometheus-v1", "prometheus-v2"
#   ## For more information about the alternatives, read the Prometheus input
#   ## plugin notes.
#   # metrics_schema = "prometheus-v1"
#
#   ## Optional TLS Config.
#   ## For advanced options: https://github.com/influxdata/telegraf/blob/v1.18.3/docs/TLS.md
#   ##
#   ## Set one or more allowed client CA certificate file names to
#   ## enable mutually authenticated TLS connections.
#   # tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#   ## Add service certificate and
 key.
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"


# # Read metrics from one or many pgbouncer servers
# [[inputs.pgbouncer]]
#   ## specify address via a url matching:
#   ##   postgres://[pqgotest[:password]]@localhost[/dbname]\
#   ##       ?sslmode=[disable|verify-ca|verify-full]
#   ## or a simple string:
#   ##   host=localhost user=pqgotest password=... sslmode=... dbname=app_production
#   ##
#   ## All connection parameters are optional.
#   ##
#   address = "host=localhost user=pgbouncer sslmode=disable"


# # Read metrics from one or many postgresql servers
# [[inputs.postgresql]]
#   ## specify address via a url matching:
#   ##   postgres://[pqgotest[:password]]@localhost[/dbname]\
#   ##       ?sslmode=[disable|verify-ca|verify-full]
#   ## or a simple string:
#   ##   host=localhost user=pqgotest password=... sslmode=... dbname=app_production
#   ##
#   ## All connection parameters are optional.
```

```
#   ##
#   ## Without the dbname parameter,
 the driver will default to a database
#   ## with the same name as the user. This dbname is just for instantiating a
#   ## connection with the server and doesn't restrict the databases we are trying
#   ## to grab metrics for.
#   ##
#   address = "host=localhost user=postgres sslmode=disable"
#   ## A custom name for the database that will be used as the "server" tag in the
#   ## measurement output. If not specified, a default one generated from
#   ## the connection address is used.
#   # outputaddress = "db01"
#
#   ## connection configuration.
#   ## maxlifetime - specify the maximum lifetime of a connection.
#   ## default is forever (0s)
#   max_lifetime = "0s"
#
#   ## A  list of databases to explicitly ignore.  If not specified, metrics for all
#   ## databases are gathered.  Do NOT use with the 'databases' option.
#   # ignored_databases = ["postgres", "template0", "template1"]
#
#   ## A list of databases to pull metrics about. If not specified, metrics for all
#   ##
 databases are gathered.  Do NOT use with the 'ignored_databases' option.
#   # databases = ["app_production", "testing"]


# # Read metrics from one or many postgresql servers
# [[inputs.postgresql_extensible]]
#   ## specify address via a url matching:
#   ##   postgres://[pqgotest[:password]]@localhost[/dbname]\
#   ##       ?sslmode=[disable|verify-ca|verify-full]
#   ## or a simple string:
#   ##   host=localhost user=pqgotest password=... sslmode=... dbname=app_production
#   #
#   ## All connection parameters are optional.  #
#   ## Without the dbname parameter, the driver will default to a database
#   ## with the same name as the user. This dbname is just for instantiating a
#   ## connection with the server and doesn't restrict the databases we are trying
#   ## to grab metrics for.
#   #
#   address = "host=localhost user=postgres sslmode=disable"
#
#   ## connection configuration.
#   ## maxlifetime - specify the maximum lifetime of a connection.
#   ## default is forever
```

(0s)
max_lifetime = "0s"
#
A list of databases to pull metrics about. If not specified, metrics for all
databases are gathered.
databases = ["app_production", "testing"]
# #
A custom name for the database that will be used as the "server" tag in the
measurement output. If not specified, a default one generated from
the connection address is used.
outputaddress = "db01"
# #
Define the toml config where the sql queries are stored
New queries can be added, if the withdbname is set to true and there is no
databases defined in the 'databases field', the sql query is ended by a
'is not null' in order to make the query succeed.
Example :
The sqlquery : "SELECT * FROM pg_stat_database where datname" become
"SELECT * FROM pg_stat_database where datname IN ('postgres', 'pgbench')"
because the databases variable was set to ['postgres', 'pgbench'] and the
withdbname was true. Be
careful that if the withdbname is set to false you
don't have to define the where clause (aka with the dbname) the tagvalue
field is used to define custom tags (separated by commas)
The optional "measurement" value can be used to override the default
output measurement name ("postgresql").
##
The script option can be used to specify the .sql file path.
If script and sqlquery options specified at same time, sqlquery will be used
##
the tagvalue field is used to define custom tags (separated by comas).
the query is expected to return columns which match the names of the
defined tags. The values in these columns must be of a string-type,
a number-type or a blob-type.
##
The timestamp field is used to override the data points timestamp value. By
default, all rows inserted with current time. By setting a timestamp column,
the row will be inserted with that column's value.
##
Structure
:
[[inputs.postgresql_extensible.query]]
sqlquery string
version string
withdbname boolean
tagvalue string (comma separated)
measurement string
timestamp string

```
#   [[inputs.postgresql_extensible.query]]
#     sqlquery="SELECT * FROM pg_stat_database"
#     version=901
#     withdbname=false
#     tagvalue=""
#     measurement=""
#   [[inputs.postgresql_extensible.query]]
#     sqlquery="SELECT * FROM pg_stat_bgwriter"
#     version=901
#     withdbname=false
#     tagvalue="postgresql.stats"


# # Read metrics from one or many prometheus clients
# [[inputs.prometheus]]
#   ## An array of urls to scrape metrics from.
#   urls = ["http://localhost:9100/metrics"]
#
#   ## Metric version controls the mapping from Prometheus metrics into
#   ## Telegraf metrics.  When using the prometheus_client output, use the same
#   ## value in both plugins to ensure metrics are round-tripped without
#   ## modification.
#   ##
#   ##
  example: metric_version = 1;
#   ##           metric_version = 2; recommended version
#   # metric_version = 1
#
#   ## Url tag name (tag containing scrapped url. optional, default is "url")
#   # url_tag = "url"
#
#   ## Whether the timestamp of the scraped metrics will be ignored.
#   ## If set to true, the gather time will be used.
#   # ignore_timestamp = false
#
#   ## An array of Kubernetes services to scrape metrics from.
#   # kubernetes_services = ["http://my-service-dns.my-namespace:9100/metrics"]
#
#   ## Kubernetes config file to create client from.
#   # kube_config = "/path/to/kubernetes.config"
#
#   ## Scrape Kubernetes pods for the following prometheus annotations:
#   ## - prometheus.io/scrape: Enable scraping for this pod
#   ## - prometheus.io/scheme: If the metrics endpoint is secured then you will need to
#   ##     set this to 'https' & most likely set the tls config.
#   ## - prometheus.io/path: If the metrics path is not /metrics, define it with this annotation.
#
```

```
  ## - prometheus.io/port: If port is not 9102 use this annotation
#   # monitor_kubernetes_pods = true
#   ## Get the list of pods to scrape with either the scope of
#   ## - cluster: the kubernetes watch api (default, no need to specify)
#   ## - node: the local cadvisor api; for scalability. Note that the config node_ip or the environment variable
NODE_IP must be set to the host IP.
#   # pod_scrape_scope = "cluster"
#   ## Only for node scrape scope: node IP of the node that telegraf is running on.
#   ## Either this config or the environment variable NODE_IP must be set.
#   # node_ip = "10.180.1.1"
#  ## Only for node scrape scope: interval in seconds for how often to get updated pod list for scraping.
#  ## Default is 60 seconds.
#  # pod_scrape_interval = 60
#   ## Restricts Kubernetes monitoring to a single namespace
#   ##   ex: monitor_kubernetes_pods_namespace = "default"
#   # monitor_kubernetes_pods_namespace = ""
#   # label selector to target pods which have the
 label
#   # kubernetes_label_selector = "env=dev,app=nginx"
#   # field selector to target pods
#   # eg. To scrape pods on a specific node
#   # kubernetes_field_selector = "spec.nodeName=$HOSTNAME"
#
#   ## Scrape Services available in Consul Catalog
#   # [inputs.prometheus.consul]
#   #   enabled = true
#   #   agent = "http://localhost:8500"
#   #   query_interval = "5m"
#
#   #   [[inputs.prometheus.consul.query]]
#   #     name = "a service name"
#   #     tag = "a service tag"
#   #     url = 'http://{{if ne .ServiceAddress
""}}{{.ServiceAddress}}{{else}}{{.Address}}{{end}}:{{.ServicePort}}/{{with
.ServiceMeta.metrics_path}}{{.}}{{else}}metrics{{end}}'
#   #     [inputs.prometheus.consul.query.tags]
#   #       host = "{{.Node}}"
#
#   ## Use bearer token for authorization. ('bearer_token' takes priority)
#   # bearer_token = "/path/to/bearer/token"
#   ## OR
#   # bearer_token_string = "abc_123"
#
#   ## HTTP Basic Authentication username and password. ('bearer_token' and
#
 ## 'bearer_token_string' take priority)
#   # username = ""
#   # password = ""
```

```
#
#   ## Specify timeout duration for slower prometheus clients (default is 3s)
#   # response_timeout = "3s"
#
#   ## Optional TLS Config
#   # tls_ca = /path/to/cafile
#   # tls_cert = /path/to/certfile
#   # tls_key = /path/to/keyfile
#   ## Use TLS but skip chain & host verification
#   # insecure_skip_verify = false


# # RAS plugin exposes counter metrics for Machine Check Errors provided by RASDaemon (sqlite3 output is
required).
# [[inputs.ras]]
#   ## Optional path to RASDaemon sqlite3 database.
#   ## Default: /var/lib/rasdaemon/ras-mc_event.db
#   # db_path = ""


# # Riemann protobuff listener.
# [[inputs.riemann_listener]]
#   ## URL to listen on.
#   ## Default is "tcp://:5555"
#   # service_address = "tcp://:8094"
#   # service_address = "tcp://127.0.0.1:http"
#   # service_address = "tcp4://:8094"
#   # service_address = "tcp6://:8094"
#   # service_address = "tcp6://[2001:db8::1]:8094"
#
#
  ## Maximum number of concurrent connections.
#   ## 0 (default) is unlimited.
#   # max_connections = 1024
#   ## Read timeout.
#   ## 0 (default) is unlimited.
#   # read_timeout = "30s"
#   ## Optional TLS configuration.
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key  = "/etc/telegraf/key.pem"
#   ## Enables client authentication if set.
#   # tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#   ## Maximum socket buffer size (in bytes when no unit specified).
#   # read_buffer_size = "64KiB"
#   ## Period between keep alive probes.
#   ## 0 disables keep alive probes.
#   ## Defaults to the OS configuration.
#   # keep_alive_period = "5m"
```

```
# # SFlow V5 Protocol Listener
# [[inputs.sflow]]
#   ## Address to listen for sFlow packets.
#   ##   example: service_address = "udp://:6343"
#   ##            service_address = "udp4://:6343"
#   ##            service_address = "udp6://:6343"
#   service_address = "udp://:6343"
#
#   ## Set the size of the operating system's receive
 buffer.
#   ##   example: read_buffer_size = "64KiB"
#   # read_buffer_size = ""


# # Receive SNMP traps
# [[inputs.snmp_trap]]
#   ## Transport, local address, and port to listen on.  Transport must
#   ## be "udp://".  Omit local address to listen on all interfaces.
#   ##   example: "udp://127.0.0.1:1234"
#   ##
#   ## Special permissions may be required to listen on a port less than
#   ## 1024.  See README.md for details
#   ##
#   # service_address = "udp://:162"
#   ##
#   ## Path to mib files
#   # path = ["/usr/share/snmp/mibs"]
#   ##
#   ## Deprecated in 1.20.0; no longer running snmptranslate
#   ## Timeout running snmptranslate command
#   # timeout = "5s"
#   ## Snmp version, defaults to 2c
#   # version = "2c"
#   ## SNMPv3 authentication and encryption options.
#   ##
#   ## Security Name.
#   # sec_name = "myuser"
#   ## Authentication protocol; one of "MD5", "SHA" or "".
#   # auth_protocol = "MD5"
#   ## Authentication password.
#   # auth_password = "pass"
#
 ## Security Level; one of "noAuthNoPriv", "authNoPriv", or "authPriv".
#   # sec_level = "authNoPriv"
#   ## Privacy protocol used for encrypted messages; one of "DES", "AES", "AES192", "AES192C", "AES256",
"AES256C" or "".
```

```
#   # priv_protocol = ""
#   ## Privacy password used for encrypted messages.
#   # priv_password = ""


# # Generic socket listener capable of handling multiple socket types.
# [[inputs.socket_listener]]
#   ## URL to listen on
#   # service_address = "tcp://:8094"
#   # service_address = "tcp://127.0.0.1:http"
#   # service_address = "tcp4://:8094"
#   # service_address = "tcp6://:8094"
#   # service_address = "tcp6://[2001:db8::1]:8094"
#   # service_address = "udp://:8094"
#   # service_address = "udp4://:8094"
#   # service_address = "udp6://:8094"
#   # service_address = "unix:///tmp/telegraf.sock"
#   # service_address = "unixgram:///tmp/telegraf.sock"
#
#   ## Change the file mode bits on unix sockets.  These permissions may not be
#   ## respected by some platforms,
 to safely restrict write permissions it is best
#   ## to place the socket into a directory that has previously been created
#   ## with the desired permissions.
#   ##   ex: socket_mode = "777"
#   # socket_mode = ""
#
#   ## Maximum number of concurrent connections.
#   ## Only applies to stream sockets (e.g. TCP).
#   ## 0 (default) is unlimited.
#   # max_connections = 1024
#
#   ## Read timeout.
#   ## Only applies to stream sockets (e.g. TCP).
#   ## 0 (default) is unlimited.
#   # read_timeout = "30s"
#
#   ## Optional TLS configuration.
#   ## Only applies to stream sockets (e.g. TCP).
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key  = "/etc/telegraf/key.pem"
#   ## Enables client authentication if set.
#   # tls_allowed_cacerts = ["/etc/telegraf/clientca.pem"]
#
#   ## Maximum socket buffer size (in bytes when no unit specified).
#   ## For stream sockets, once the buffer fills up, the sender will start backing up.
#   ## For datagram sockets, once the buffer
```

```
 fills up, metrics will start dropping.
#   ## Defaults to the OS default.
#   # read_buffer_size = "64KiB"
#
#   ## Period between keep alive probes.
#   ## Only applies to TCP sockets.
#   ## 0 disables keep alive probes.
#   ## Defaults to the OS configuration.
#   # keep_alive_period = "5m"
#
#   ## Data format to consume.
#   ## Each data format has its own unique set of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   # data_format = "influx"
#
#   ## Content encoding for message payloads, can be set to "gzip" to or
#   ## "identity" to apply no encoding.
#   # content_encoding = "identity"


# # Read metrics from SQL queries
# [[inputs.sql]]
#   ## Database Driver
#   ## See https://github.com/influxdata/telegraf/blob/master/docs/SQL_DRIVERS_INPUT.md for
#   ## a list of supported drivers.
#   driver = "mysql"
#
#   ## Data source name for connecting
#   ## The syntax and supported options
 depends on selected driver.
#   dsn = "username:password@mysqlserver:3307/dbname?param=value"
#
#   ## Timeout for any operation
#   ## Note that the timeout for queries is per query not per gather.
#   # timeout = "5s"
#
#   ## Connection time limits
#   ## By default the maximum idle time and maximum lifetime of a connection is unlimited, i.e. the connections
#   ## will not be closed automatically. If you specify a positive time, the connections will be closed after
#   ## idleing or existing for at least that amount of time, respectively.
#   # connection_max_idle_time = "0s"
#   # connection_max_life_time = "0s"
#
#   ## Connection count limits
#   ## By default the number of open connections is not limited and the number of maximum idle connections
#   ## will be inferred from the number of queries specified. If you specify a positive number for any of the
#   ## two options, connections will be closed when reaching the specified limit. The number of idle connections
```

```
#   ##
 will be clipped to the maximum number of connections limit if any.
#   # connection_max_open = 0
#   # connection_max_idle = auto
#
#   [[inputs.sql.query]]
#     ## Query to perform on the server
#     query="SELECT user,state,latency,score FROM Scoreboard WHERE application > 0"
#     ## Alternatively to specifying the query directly you can select a file here containing the SQL query.
#     ## Only one of 'query' and 'query_script' can be specified!
#     # query_script = "/path/to/sql/script.sql"
#
#     ## Name of the measurement
#     ## In case both measurement and 'measurement_col' are given, the latter takes precedence.
#     # measurement = "sql"
#
#     ## Column name containing the name of the measurement
#     ## If given, this will take precedence over the 'measurement' setting. In case a query result
#     ## does not contain the specified column, we fall-back to the 'measurement' setting.
#     # measurement_column = ""
#
#     ## Column name containing the time of the
 measurement
#     ## If ommited, the time of the query will be used.
#     # time_column = ""
#
#     ## Format of the time contained in 'time_col'
#     ## The time must be 'unix', 'unix_ms', 'unix_us', 'unix_ns', or a golang time format.
#     ## See https://golang.org/pkg/time/#Time.Format for details.
#     # time_format = "unix"
#
#     ## Column names containing tags
#     ## An empty include list will reject all columns and an empty exclude list will not exclude any column.
#     ## I.e. by default no columns will be returned as tag and the tags are empty.
#     # tag_columns_include = []
#     # tag_columns_exclude = []
#
#   ## Column names containing fields (explicit types)
#     ## Convert the given columns to the corresponding type. Explicit type conversions take precedence over
#   ## the automatic (driver-based) conversion below.
#   ## NOTE: Columns should not be specified for multiple types or the resulting type is undefined.
#     # field_columns_float = []
#     # field_columns_int
 = []
#   # field_columns_uint = []
#   # field_columns_bool = []
#   # field_columns_string = []
#
```

```
#     ## Column names containing fields (automatic types)
#     ## An empty include list is equivalent to '[*]' and all returned columns will be accepted. An empty
#     ## exclude list will not exclude any column. I.e. by default all columns will be returned as fields.
#     ## NOTE: We rely on the database driver to perform automatic datatype conversion.
#     # field_columns_include = []
#     # field_columns_exclude = []


# # Read metrics from Microsoft SQL Server
# [[inputs.sqlserver]]
# ## Specify instances to monitor with a list of connection strings.
# ## All connection parameters are optional.
# ## By default, the host is localhost, listening on default port, TCP 1433.
# ##   for Windows, the user is the currently running AD user (SSO).
# ##   See https://github.com/denisenkom/go-mssqldb for detailed connection
# ##   parameters, in particular, tls connections can
 be created like so:
# ##   "encrypt=true;certificate=<cert>;hostNameInCertificate=<SqlServer host fqdn>"
# servers = [
#   "Server=192.168.1.10;Port=1433;User Id=<user>;Password=<pw>;app name=telegraf;log=1;",
# ]
#
# ## Authentication method
# ## valid methods: "connection_string", "AAD"
# # auth_method = "connection_string"
#
# ## "database_type" enables a specific set of queries depending on the database type. If specified, it replaces
azuredb = true/false and query_version = 2
# ## In the config file, the sql server plugin section should be repeated each with a set of servers for a specific
database_type.
# ## Possible values for database_type are - "SQLServer" or "AzureSQLDB" or "AzureSQLManagedInstance" or
"AzureSQLPool"
#
# database_type = "SQLServer"
#
# ## A list of queries to include. If not specified, all the below listed queries are used.
# include_query = []
#
# ## A list of queries to explicitly ignore.
# exclude_query = ["SQLServerAvailabilityReplicaStates", "SQLServerDatabaseReplicaStates"]
#
#
 ## Queries enabled by default for database_type = "SQLServer" are -
# ## SQLServerPerformanceCounters, SQLServerWaitStatsCategorized, SQLServerDatabaseIO,
SQLServerProperties, SQLServerMemoryClerks,
# ## SQLServerSchedulers, SQLServerRequests, SQLServerVolumeSpace, SQLServerCpu,
SQLServerAvailabilityReplicaStates, SQLServerDatabaseReplicaStates
#
```

```
# ## Queries enabled by default for database_type = "AzureSQLDB" are -
# ## AzureSQLDBResourceStats, AzureSQLDBResourceGovernance, AzureSQLDBWaitStats,
AzureSQLDBDatabaseIO, AzureSQLDBServerProperties,
# ## AzureSQLDBOsWaitstats, AzureSQLDBMemoryClerks, AzureSQLDBPerformanceCounters,
AzureSQLDBRequests, AzureSQLDBSchedulers
#
# ## Queries enabled by default for database_type = "AzureSQLManagedInstance" are -
# ## AzureSQLMIResourceStats, AzureSQLMIResourceGovernance, AzureSQLMIDatabaseIO,
AzureSQLMIServerProperties, AzureSQLMIOsWaitstats,
# ## AzureSQLMIMemoryClerks, AzureSQLMIPerformanceCounters, AzureSQLMIRequests,
 AzureSQLMISchedulers
#
# ## Queries enabled by default for database_type = "AzureSQLPool" are -
# ## AzureSQLPoolResourceStats, AzureSQLPoolResourceGovernance, AzureSQLPoolDatabaseIO,
AzureSQLPoolWaitStats,
# ## AzureSQLPoolMemoryClerks, AzureSQLPoolPerformanceCounters, AzureSQLPoolSchedulers
#
# ## Following are old config settings
# ## You may use them only if you are using the earlier flavor of queries, however it is recommended to use
# ## the new mechanism of identifying the database_type there by use it's corresponding queries
#
# ## Optional parameter, setting this to 2 will use a new version
# ## of the collection queries that break compatibility with the original
# ## dashboards.
# ## Version 2 - is compatible from SQL Server 2012 and later versions and also for SQL Azure DB
# # query_version = 2
#
# ## If you are using AzureDB, setting this to true will gather resource utilization metrics
# # azuredb = false


# # Statsd UDP/TCP Server
# [[inputs.statsd]]
#   ## Protocol, must
 be "tcp", "udp", "udp4" or "udp6" (default=udp)
#   protocol = "udp"
#
#   ## MaxTCPConnection - applicable when protocol is set to tcp (default=250)
#   max_tcp_connections = 250
#
#   ## Enable TCP keep alive probes (default=false)
#   tcp_keep_alive = false
#
#   ## Specifies the keep-alive period for an active network connection.
#   ## Only applies to TCP sockets and will be ignored if tcp_keep_alive is false.
#   ## Defaults to the OS configuration.
#   # tcp_keep_alive_period = "2h"
#
```

```
#   ## Address and port to host UDP listener on
#   service_address = ":8125"
#
#   ## The following configuration options control when telegraf clears it's cache
#   ## of previous values. If set to false, then telegraf will only clear it's
#   ## cache when the daemon is restarted.
#   ## Reset gauges every interval (default=true)
#   delete_gauges = true
#   ## Reset counters every interval (default=true)
#   delete_counters = true
#   ## Reset sets every interval (default=true)
#   delete_sets
 = true
#   ## Reset timings & histograms every interval (default=true)
#   delete_timings = true
#
#   ## Percentiles to calculate for timing & histogram stats
#   percentiles = [50.0, 90.0, 99.0, 99.9, 99.95, 100.0]
#
#   ## separator to use between elements of a statsd metric
#   metric_separator = "_"
#
#   ## Parses tags in the datadog statsd format
#   ## http://docs.datadoghq.com/guides/dogstatsd/
#   parse_data_dog_tags = false
#
#   ## Parses datadog extensions to the statsd format
#   datadog_extensions = false
#
#   ## Parses distributions metric as specified in the datadog statsd format
#   ## https://docs.datadoghq.com/developers/metrics/types/?tab=distribution#definition
#   datadog_distributions = false
#
#   ## Statsd data translation templates, more info can be read here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/TEMPLATE_PATTERN.md
#   # templates = [
#   #     "cpu.* measurement*"
#   # ]
#
#   ## Number of UDP messages allowed to queue up, once
 filled,
#   ## the statsd server will start dropping packets
#   allowed_pending_messages = 10000
#
#   ## Number of timing/histogram values to track per-measurement in the
#   ## calculation of percentiles. Raising this limit increases the accuracy
#   ## of percentiles but also increases the memory usage and cpu time.
#   percentile_limit = 1000
```

```
#
#   ## Max duration (TTL) for each metric to stay cached/reported without being updated.
#   #max_ttl = "1000h"


# # Suricata stats and alerts plugin
# [[inputs.suricata]]
#   ## Data sink for Suricata stats and alerts logs
#   # This is expected to be a filename of a
#   # unix socket to be created for listening.
#   source = "/var/run/suricata-stats.sock"
#
#   # Delimiter for flattening field keys, e.g. subitem "alert" of "detect"
#   # becomes "detect_alert" when delimiter is "_".
#   delimiter = "_"
#
#   ## Detect alert logs
#   # alerts = false


# # Accepts syslog messages following RFC5424 format with transports as per RFC5426,
 RFC5425, or RFC6587
# [[inputs.syslog]]
#   ## Specify an ip or hostname with port - eg., tcp://localhost:6514, tcp://10.0.0.1:6514
#   ## Protocol, address and port to host the syslog receiver.
#   ## If no host is specified, then localhost is used.
#   ## If no port is specified, 6514 is used (RFC5425#section-4.1).
#   server = "tcp://:6514"
#
#   ## TLS Config
#   # tls_allowed_cacerts = ["/etc/telegraf/ca.pem"]
#   # tls_cert = "/etc/telegraf/cert.pem"
#   # tls_key = "/etc/telegraf/key.pem"
#
#   ## Period between keep alive probes.
#   ## 0 disables keep alive probes.
#   ## Defaults to the OS configuration.
#   ## Only applies to stream sockets (e.g. TCP).
#   # keep_alive_period = "5m"
#
#   ## Maximum number of concurrent connections (default = 0).
#   ## 0 means unlimited.
#   ## Only applies to stream sockets (e.g. TCP).
#   # max_connections = 1024
#
#   ## Read timeout is the maximum time allowed for reading a single message (default = 5s).
#   ## 0 means unlimited.
#   #
```

```
 read_timeout = "5s"
#
#   ## The framing technique with which it is expected that messages are transported (default = "octet-counting").
#   ## Whether the messages come using the octect-counting (RFC5425#section-4.3.1, RFC6587#section-3.4.1),
#   ## or the non-transparent framing technique (RFC6587#section-3.4.2).
#   ## Must be one of "octet-counting", "non-transparent".
#   # framing = "octet-counting"
#
#   ## The trailer to be expected in case of non-transparent framing (default = "LF").
#   ## Must be one of "LF", or "NUL".
#   # trailer = "LF"
#
#   ## Whether to parse in best effort mode or not (default = false).
#   ## By default best effort parsing is off.
#   # best_effort = false
#
#   ## The RFC standard to use for message parsing
#   ## By default RFC5424 is used. RFC3164 only supports UDP transport (no streaming support)
#   ## Must be one of "RFC5424", or "RFC3164".
#   # syslog_standard = "RFC5424"
#
#   ## Character to prepend to SD-PARAMs (default = "_").
#   ## A syslog
 message can contain multiple parameters and multiple identifiers within structured data section.
#   ## Eg., [id1 name1="val1" name2="val2"][id2 name1="val1" nameA="valA"]
#   ## For each combination a field is created.
#   ## Its name is created concatenating identifier, sdparam_separator, and parameter name.
#   # sdparam_separator = "_"


# # Parse the new lines appended to a file
# [[inputs.tail]]
#   ## File names or a pattern to tail.
#   ## These accept standard unix glob matching rules, but with the addition of
#   ## ** as a "super asterisk". ie:
#   ##   "/var/log/**.log"  -> recursively find all .log files in /var/log
#   ##   "/var/log/*/*.log" -> find all .log files with a parent dir in /var/log
#   ##   "/var/log/apache.log" -> just tail the apache log file
#   ##   "/var/log/log[!1-2]*  -> tail files without 1-2
#   ##   "/var/log/log[^1-2]*  -> identical behavior as above
#   ## See https://github.com/gobwas/glob for more examples
#   ##
#   files = ["/var/mymetrics.out"]
#
#
   ## Read file from beginning.
#   # from_beginning = false
#
```

```
#   ## Whether file is a named pipe
#   # pipe = false
#
#   ## Method used to watch for file updates.  Can be either "inotify" or "poll".
#   # watch_method = "inotify"
#
#   ## Maximum lines of the file to process that have not yet be written by the
#   ## output.  For best throughput set based on the number of metrics on each
#   ## line and the size of the output's metric_batch_size.
#   # max_undelivered_lines = 1000
#
#   ## Character encoding to use when interpreting the file contents.  Invalid
#   ## characters are replaced using the unicode replacement character.  When set
#   ## to the empty string the data is not decoded to text.
#   ##   ex: character_encoding = "utf-8"
#   ##       character_encoding = "utf-16le"
#   ##       character_encoding = "utf-16be"
#   ##       character_encoding = ""
#   # character_encoding = ""
#
#   ## Data format to consume.
#   ## Each data format has its own unique set
 of configuration options, read
#   ## more about them here:
#   ## https://github.com/influxdata/telegraf/blob/master/docs/DATA_FORMATS_INPUT.md
#   data_format = "influx"
#
#   ## Set the tag that will contain the path of the tailed file. If you don't want this tag, set it to an empty string.
#   # path_tag = "path"
#
#   ## multiline parser/codec
#   ## https://www.elastic.co/guide/en/logstash/2.4/plugins-filters-multiline.html
#   #[inputs.tail.multiline]
#     ## The pattern should be a regexp which matches what you believe to be an
#  ## indicator that the field is part of an event consisting of multiple lines of log data.
#     #pattern = "^\s"
#
#     ## This field must be either "previous" or "next".
#  ## If a line matches the pattern, "previous" indicates that it belongs to the previous line,
#  ## whereas "next" indicates that the line belongs to the next one.
#     #match_which_line = "previous"
#
#     ## The invert_match field can be true or false (defaults to false).
#
    ## If true, a message not matching the pattern will constitute a match of the multiline
#  ## filter and the what will be applied. (vice-versa is also true)
#     #invert_match = false
#
```

```
#     ## After the specified timeout, this plugin sends a multiline event even if no new pattern
#  ## is found to start a new event. The default timeout is 5s.
#     #timeout = 5s


# # Generic TCP listener
# [[inputs.tcp_listener]]
#   ## DEPRECATED: The 'tcp_listener' plugin is deprecated in version 1.3.0, use 'inputs.socket_listener' instead.
#   # DEPRECATED: the TCP listener plugin has been deprecated in favor of the
#   # socket_listener plugin
#   # see https://github.com/influxdata/telegraf/tree/master/plugins/inputs/socket_listener


# # Generic UDP listener
# [[inputs.udp_listener]]
#   ## DEPRECATED: The 'udp_listener' plugin is deprecated in version 1.3.0, use 'inputs.socket_listener' instead.
#   # DEPRECATED: the TCP listener plugin has been deprecated in favor of the
#   # socket_listener
 plugin
#   # see https://github.com/influxdata/telegraf/tree/master/plugins/inputs/socket_listener


# # Read metrics from VMware vCenter
# [[inputs.vsphere]]
#   ## List of vCenter URLs to be monitored. These three lines must be uncommented
#   ## and edited for the plugin to work.
#   vcenters = [ "https://vcenter.local/sdk" ]
#   username = "user@corp.local"
#   password = "secret"
#
#   ## VMs
#   ## Typical VM metrics (if omitted or empty, all metrics are collected)
#   # vm_include = [ "/*/vm/**"] # Inventory path to VMs to collect (by default all are collected)
#   # vm_exclude = [] # Inventory paths to exclude
#   vm_metric_include = [
#     "cpu.demand.average",
#     "cpu.idle.summation",
#     "cpu.latency.average",
#     "cpu.readiness.average",
#     "cpu.ready.summation",
#     "cpu.run.summation",
#     "cpu.usagemhz.average",
#     "cpu.used.summation",
#     "cpu.wait.summation",
#     "mem.active.average",
#     "mem.granted.average",
#     "mem.latency.average",
#
```

```
    "mem.swapin.average",
#     "mem.swapinRate.average",
#     "mem.swapout.average",
#     "mem.swapoutRate.average",
#     "mem.usage.average",
#     "mem.vmmemctl.average",
#     "net.bytesRx.average",
#     "net.bytesTx.average",
#     "net.droppedRx.summation",
#     "net.droppedTx.summation",
#     "net.usage.average",
#     "power.power.average",
#     "virtualDisk.numberReadAveraged.average",
#     "virtualDisk.numberWriteAveraged.average",
#     "virtualDisk.read.average",
#     "virtualDisk.readOIO.latest",
#     "virtualDisk.throughput.usage.average",
#     "virtualDisk.totalReadLatency.average",
#     "virtualDisk.totalWriteLatency.average",
#     "virtualDisk.write.average",
#     "virtualDisk.writeOIO.latest",
#     "sys.uptime.latest",
#   ]
#   # vm_metric_exclude = [] ## Nothing is excluded by default
#   # vm_instances = true ## true by default
#
#   ## Hosts
#   ## Typical host metrics (if omitted or empty, all metrics are collected)
#   # host_include = [ "/*/host/**"]
 # Inventory path to hosts to collect (by default all are collected)
#   # host_exclude [] # Inventory paths to exclude
#   host_metric_include = [
#     "cpu.coreUtilization.average",
#     "cpu.costop.summation",
#     "cpu.demand.average",
#     "cpu.idle.summation",
#     "cpu.latency.average",
#     "cpu.readiness.average",
#     "cpu.ready.summation",
#     "cpu.swapwait.summation",
#     "cpu.usage.average",
#     "cpu.usagemhz.average",
#     "cpu.used.summation",
#     "cpu.utilization.average",
#     "cpu.wait.summation",
#     "disk.deviceReadLatency.average",
#     "disk.deviceWriteLatency.average",
#     "disk.kernelReadLatency.average",
```

```
#     "disk.kernelWriteLatency.average",
#     "disk.numberReadAveraged.average",
#     "disk.numberWriteAveraged.average",
#     "disk.read.average",
#     "disk.totalReadLatency.average",
#     "disk.totalWriteLatency.average",
#     "disk.write.average",
#     "mem.active.average",
#     "mem.latency.average",
#     "mem.state.latest",
#
    "mem.swapin.average",
#     "mem.swapinRate.average",
#     "mem.swapout.average",
#     "mem.swapoutRate.average",
#     "mem.totalCapacity.average",
#     "mem.usage.average",
#     "mem.vmmemctl.average",
#     "net.bytesRx.average",
#     "net.bytesTx.average",
#     "net.droppedRx.summation",
#     "net.droppedTx.summation",
#     "net.errorsRx.summation",
#     "net.errorsTx.summation",
#     "net.usage.average",
#     "power.power.average",
#     "storageAdapter.numberReadAveraged.average",
#     "storageAdapter.numberWriteAveraged.average",
#     "storageAdapter.read.average",
#     "storageAdapter.write.average",
#     "sys.uptime.latest",
#   ]
#     ## Collect IP addresses? Valid values are "ipv4" and "ipv6"
#   # ip_addresses = ["ipv6", "ipv4" ]
#
#   # host_metric_exclude = [] ## Nothing excluded by default
#   # host_instances = true ## true by default
#
#
#   ## Clusters
#   # cluster_include = [ "/*/host/**"] # Inventory path to clusters to collect (by
 default all are collected)
#   # cluster_exclude = [] # Inventory paths to exclude
#   # cluster_metric_include = [] ## if omitted or empty, all metrics are collected
#   # cluster_metric_exclude = [] ## Nothing excluded by default
#   # cluster_instances = false ## false by default
#
#   ## Datastores
```

```
#   # datastore_include = [ "/*/datastore/**"] # Inventory path to datastores to collect (by default all are collected)
#   # datastore_exclude = [] # Inventory paths to exclude
#   # datastore_metric_include = [] ## if omitted or empty, all metrics are collected
#   # datastore_metric_exclude = [] ## Nothing excluded by default
#   # datastore_instances = false ## false by default
#
#   ## Datacenters
#   # datacenter_include = [ "/*/host/**"] # Inventory path to clusters to collect (by default all are collected)
#   # datacenter_exclude = [] # Inventory paths to exclude
#   datacenter_metric_include = [] ## if omitted or empty, all metrics are collected
#   datacenter_metric_exclude =
 [ "*" ] ## Datacenters are not collected by default.
#   # datacenter_instances = false ## false by default
#
#   ## Plugin Settings
#   ## separator character to use for measurement and field names (default: "_")
#   # separator = "_"
#
#   ## number of objects to retrieve per query for realtime resources (vms and hosts)
#   ## set to 64 for vCenter 5.5 and 6.0 (default: 256)
#   # max_query_objects = 256
#
#   ## number of metrics to retrieve per query for non-realtime resources (clusters and datastores)
#   ## set to 64 for vCenter 5.5 and 6.0 (default: 256)
#   # max_query_metrics = 256
#
#   ## number of go routines to use for collection and discovery of objects and metrics
#   # collect_concurrency = 1
#   # discover_concurrency = 1
#
#   ## the interval before (re)discovering objects subject to metrics collection (default: 300s)
#   # object_discovery_interval = "300s"
#
#   ## timeout applies to any of the api request made to vcenter
#   # timeout = "60s"
#
#   ## When set to true,
 all samples are sent as integers. This makes the output
#   ## data types backwards compatible with Telegraf 1.9 or lower. Normally all
#   ## samples from vCenter, with the exception of percentages, are integer
#   ## values, but under some conditions, some averaging takes place internally in
#   ## the plugin. Setting this flag to "false" will send values as floats to
#   ## preserve the full precision when averaging takes place.
#   # use_int_samples = true
#
#   ## Custom attributes from vCenter can be very useful for queries in order to slice the
#   ## metrics along different dimension and for forming ad-hoc relationships. They are disabled
#   ## by default, since they can add a considerable amount of tags to the resulting metrics. To
```

```
#   ## enable, simply set custom_attribute_exclude to [] (empty set) and use custom_attribute_include
#   ## to select the attributes you want to include.
#   ## By default, since they can add a considerable amount of tags to the resulting metrics.
 To
#   ## enable, simply set custom_attribute_exclude to [] (empty set) and use custom_attribute_include
#   ## to select the attributes you want to include.
#   # custom_attribute_include = []
#   # custom_attribute_exclude = ["*"]
#
#   ## The number of vSphere 5 minute metric collection cycles to look back for non-realtime metrics. In
#   ## some versions (6.7, 7.0 and possible more), certain metrics, such as cluster metrics, may be reported
#   ## with a significant delay (>30min). If this happens, try increasing this number. Please note that increasing
#   ## it too much may cause performance issues.
#   # metric_lookback = 3
#
#   ## Optional SSL Config
#   # ssl_ca = "/path/to/cafile"
#   # ssl_cert = "/path/to/certfile"
#   # ssl_key = "/path/to/keyfile"
#   ## Use SSL but skip chain & host verification
#   # insecure_skip_verify = false
#
#   ## The Historical Interval value must match EXACTLY the interval in the daily
#   # "Interval Duration" found on the VCenter server
 under Configure > General > Statistics > Statistic intervals
#   # historical_interval = "5m"


# # A Webhooks Event collector
# [[inputs.webhooks]]
#   ## Address and port to host Webhook listener on
#   service_address = ":1619"
#
#   [inputs.webhooks.filestack]
#     path = "/filestack"
#
#   [inputs.webhooks.github]
#     path = "/github"
#     # secret = ""
#
#   [inputs.webhooks.mandrill]
#     path = "/mandrill"
#
#   [inputs.webhooks.rollbar]
#     path = "/rollbar"
#
#   [inputs.webhooks.papertrail]
#     path = "/papertrail"
```

#
[inputs.webhooks.particle]
path = "/particle"

This plugin implements the Zipkin http server to gather trace and timing data needed to troubleshoot latency problems in microservice architectures.
[[inputs.zipkin]]
path = "/api/v1/spans" # URL path for span data
port = 9411   # Port on which Telegraf listens

Found in path(s):
* /telegraf-1.21.4-1.x86_64.src.rpm-cosi-expand-archive-NK33rePD/etc/telegraf/telegraf.conf
No license file was found, but licenses were detected in source scan.

/telegraf-1.21.4-1.x86_64.src.rpm-cosi-expand-archive-NK33rePD/usr/bin/telegraf: binary file matches

Found in path(s):
* /bin/grep

1.401 google-flatbuffers 2.0.0+incompatible

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1.410 go-ldap-ldap 3.4.1

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1.411 lua 5.3.6

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1.412 nginx 1.12.1

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1.413 prometheus-common 0.32.1

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1.414 html5lib 0.90

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try:
   from setuptools import setup
except ImportError:

```
   from distutils.core import setup
import os

long_description="""HTML parser designed to follow the HTML5
specification. The parser is designed to handle all flavours of HTML and
parses invalid documents using well-defined error handling rules compatible
with the behaviour of major desktop web browsers.

Output is to a tree structure; the current release supports output to
DOM, ElementTree and lxml tree formats as well as a
simple custom format"""

classifiers=[
  'Development Status :: 5 - Production/Stable',
  'Intended Audience :: Developers',
  'License :: OSI Approved :: MIT License',
  'Operating System :: OS Independent',
  'Programming Language :: Python',
  'Topic :: Software Development :: Libraries :: Python Modules',
  'Topic :: Text Processing :: Markup :: HTML'
  ]

setup(name='html5lib',
    version='0.90',
    url='http://code.google.com/p/html5lib/',
     license="MIT License",
    description='HTML parser based on the HTML5 specifcation',
    long_description=long_description,
    classifiers=classifiers,
    maintainer='James Graham',
    maintainer_email='james@hoppipolla.co.uk',
    packages=['html5lib'] + ['html5lib.'+name
        for name in os.listdir(os.path.join('src','html5lib'))
        if os.path.isdir(os.path.join('src','html5lib',name)) and
           not name.startswith('.')],
    package_dir = {'html5lib': os.path.join('src', 'html5lib')},
    )
```

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1.415 coverage 3.6

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#    documentation and/or other materials provided with the
```

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* /coverage-3-6-tar-gz/coverage-3.6/coverage/__init__.py
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```
/**
* QUnit - A JavaScript Unit Testing Framework
*
* http://docs.jquery.com/QUnit
*
* Copyright (c) 2011 John Resig, Jörn Zaefferer
* Dual licensed under the MIT (MIT-LICENSE.txt)
* or GPL (GPL-LICENSE.txt) licenses.
*/
/**
* jsDump
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
* Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
* Date: 5/15/2008
* @projectDescription Advanced and extensible data dumping for Javascript.
* @version 1.0.0
* @author Ariel Flesler
* @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
*/
/*
* Javascript Diff Algorithm
*  By John Resig (http://ejohn.org/)
*  Modified by Chu Alan "sprite"
*
* Released under the MIT license.
*
* More Info:
*  http://ejohn.org/projects/javascript-diff-algorithm/
*
* Usage: QUnit.diff(expected, actual)
*
* QUnit.diff("the quick brown
 fox jumped over", "the quick fox jumps over") == "the  quick <del>brown </del> fox <del>jumped
</del><ins>jumps </ins> over"
*/
```

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* jQuery Templates Plugin 1.0.0pre
* http://github.com/jquery/jquery-tmpl
* Requires jQuery 1.4.2
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1.416 libdwarf 20161124

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*/

/* dsc_type: if 0, then dsc_low is a single discriminant value
  and dsc_high is zero..
  If 1, then dsc_low, dsc_high are a discriminant range

  All the messy complexity here is so we can have both
  a set of values read as uleb and as sleb.
  We make our own copy of the block for the same reason.
*/

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xwd v1.0.7

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Main Mesa code src/mesa/ MIT
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Ext headers GL/glext.h Khronos
GL/glxext.h Khronos
GL/wglext.h Khronos
KHR/khrplatform.h Khronos

****

---
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include/GL/glxext.h
include/GL/wglxext.h :

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### Unicode Character Database
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The snowball stemmers in
contrib/snowball/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The Arabic stemmer (contrib/analyzers) comes with a default
stopword list that is BSD-licensed created by Jacques Savoy. The file resides in
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt.
See http://members.unine.ch/jacques.savoy/clef/index.html.

The Persian analyzer (contrib/analyzers) comes with a default
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Includes lib/servlet-api-2.4.jar from Apache Tomcat

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1.421 cython 0.15.1

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1.426 log4j-to-slf4j 2.17.1

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1.427 icu 70

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---
layout: default
title: Legalities
parent: Release & Milestone Tasks
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See [svn changeset r39632](https://github.com/unicode-
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
```

```
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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1.429 go-jmespath 0.4.0

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1.430 dom 1.0

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*/
/**
    * Checks if this content model has had its min/maxOccurs values reduced for
    * purposes of speeding up UPA.  If
 so, this content model should not be used
    * for any purpose other than checking unique particle attribution
```

```
   *
   * @return a boolean that says whether this content has been compacted for UPA
   */
```

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*/
/**
    * used to check the 3 constraints against each complex type
    * (should be each model group):
    * Unique Particle
 Attribution, Particle Derivation (Restriction),
    * Element Declrations Consistent.
    */
```

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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XPointerMessages.properties

* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/SAXMessages.properties
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 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASModel.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASDataType.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
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*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLImgElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSParticle.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/DefaultNamespaceContext.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java

* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/ObjectFactory.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java
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 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTitleElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLabelElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFieldSetElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ShortListImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLMetaElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDelegate.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/UIEventImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Method.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EntityReferenceImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/ByteList.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java

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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMUtil.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLIElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityDescription.java
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*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/XMLEventImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XS10TypeHelper.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDivElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNamespaceItem.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XML11Char.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarPreparser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBRElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/PSVIProvider.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLStyleElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/ValidationManager.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EntityResolver2Wrapper.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSElementDecl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMParser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSParticleDecl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java

* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/StAXInputSource.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DocumentTypeImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLOptionElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLString.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableRowElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOListElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDTDScannerImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLInputElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SecureProcessingConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSFacet.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLGoElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Printer.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDProcessor.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLRefreshElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMNormalizer.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLIsIndexElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/EmptyLocation.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SerializerFactory.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/HTTPInputSource.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Encodings.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAttributeUse.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/CharactersImpl.java

* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDOMImplementationImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/XMLEventFactoryImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/JAXPNamespaceContextWrapper.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/LSInputListImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/ExtendedSchemaDVFactoryImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SymbolTable.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityScanner.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityManager.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DVFactoryException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptionElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLElement.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java
*
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
*

/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDoElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
*
/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/AttributesProxy.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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* limitations under the License.
*/
/**
  * DOM Level 3 LS CR - Experimental.
    * Create a new <code>LSParser</code>. The newly constructed parser may
    *
 then be configured by means of its <code>DOMConfiguration</code>
    * object, and used to parse documents by means of its <code>parse</code>
    * method.
    * @param mode The <code>mode</code> argument is either

```
    *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
    *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in synchronous
    *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in asynchronous
    *   mode.
    * @param schemaType  An absolute URI representing the type of the schema
    *   language used during the load of a <code>Document</code> using the
    *   newly created <code>LSParser</code>. Note that no lexical checking
    *   is done on the absolute URI. In order to create a
    *   <code>LSParser</code> for any kind of schema types (i.e. the
    *   LSParser will be free to use any schema
 found), use the value
    *   <code>null</code>.
    * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
    *   , applications must use the value
    *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
    *   applications must use the value
    *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
    *   are outside the scope of the W3C and therefore should recommend an
    *   absolute URI in order to use this method.
    * @return  The newly created <code>LSParser</code> object. This
    *   <code>LSParser</code> is either synchronous or asynchronous
    *   depending on the value of the <code>mode</code> argument.
    * <p ><b>Note:</b>    By default, the newly created <code>LSParser</code>
    *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
    *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
     *    error-handler</a>" configuration parameter is <code>null</code>. However, implementations
    *   may provide a default error handler at creation time. In that case,
    *   the initial value of the <code>"error-handler"</code> configuration
    *   parameter on the new created <code>LSParser</code> contains a
    *   reference to the default error handler.
    * @exception DOMException
    *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
    *   not supported.
  */
```

Found in path(s):
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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```

```
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*/
```

Found in path(s):
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java

1.431 constantine 0.7

1.431.1 Available under license :

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

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>org.jruby.extras</groupId>
 <artifactId>constantine</artifactId>
 <packaging>jar</packaging>
 <version>0.7</version>
 <name>constantine</name>
 <description>A set of platform constants (e.g. errno values)</description>
 <url>http://constantine.kenai.com</url>
 <licenses>
  <license>
    <name>The MIT License</name>
    <url>http://www.opensource.org/licenses/mit-license.php</url>
    <distribution>repo</distribution>
  </license>
 </licenses>
 <scm>
  <connection>scm:hg:https://kenai.com/hg/constantine~mercurial</connection>
  <url>https://kenai.com/hg/constantine~mercurial</url>
 </scm>
 <distributionManagement>
   <repository>
    <id>codehaus-jruby-repository</id>
     <name>JRuby Central Repository</name>
    <url>dav:https://dav.codehaus.org/repository/jruby</url>
```

```
  </repository>
  <snapshotRepository>
    <id>codehaus-jruby-snapshot-repository</id>
    <name>JRuby Central Development Repository</name>
    <url>dav:https://dav.codehaus.org/snapshots.repository/jruby</url>
  </snapshotRepository>
</distributionManagement>
<repositories>
  <repository>
    <id>maven2-repository.dev.java.net</id>
    <name>Java.net Repository for Maven</name>
    <url>http://download.java.net/maven/2/</url>
  </repository>
  <repository>
    <id>codehaus</id>
    <name>Codehaus Repository</name>
    <releases>
      <enabled>true</enabled>
    </releases>
    <snapshots>
      <enabled>false</enabled>
    </snapshots>
    <url>http://repository.codehaus.org</url>
  </repository>
</repositories>

<developers>
  <developer>
    <id>wmeissner</id>
    <name>Wayne Meissner</name>
     <email>wmeissner@gmail.com</email>
  </developer>
</developers>

<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.5</version>
    <scope>test</scope>
  </dependency>
</dependencies>
<build>
  <directory>build</directory>
  <outputDirectory>build/classes</outputDirectory>
  <testOutputDirectory>build/test/classes</testOutputDirectory>
  <sourceDirectory>src</sourceDirectory>
  <testSourceDirectory>test</testSourceDirectory>
```

```
  <resources>
  </resources>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>2.0.2</version>
      <configuration>
        <source>1.5</source>
        <target>1.5</target>
      </configuration>
    </plugin>
  </plugins>
  <extensions>
    <extension>
      <groupId>org.jvnet.wagon-svn</groupId>
      <artifactId>wagon-svn</artifactId>

  <version>1.8</version>
    </extension>
    <extension>
      <groupId>org.apache.maven.wagon</groupId>
      <artifactId>wagon-webdav</artifactId>
    </extension>
  </extensions>
 </build>
 <reporting>
   <outputDirectory>build/report</outputDirectory>
 </reporting>
</project>
```

Found in path(s):
* /constantine-0-7-jar-zip/constantine-0-7-jar/META-INF/maven/org.jruby.extras/constantine/pom.xml

1.432 jaffl 0.5.1

1.432.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>org.jruby.extras</groupId>
 <artifactId>jaffl</artifactId>
 <packaging>jar</packaging>
 <version>0.5.12</version>
 <name>jaffl</name>
```

<description>An abstracted interface to invoking native functions from java</description>
<url>http://github.com/wmeissner/jaffl</url>
<licenses>
 <license>
  <name>The Apache Software License, Version 2.0</name>
  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
 </license>
</licenses>
<scm>
 <connection>scm:git:http://github.com/wmeissner/jaffl.git</connection>
 <url>http://github.com/wmeissner/jaffl</url>
</scm>
<distributionManagement>
  <repository>
   <id>codehaus-jruby-repository</id>
   <name>JRuby Central Repository</name>
   <url>dav:https://dav.codehaus.org/repository/jruby</url>
 </repository>
 <snapshotRepository>
  <id>codehaus-jruby-snapshot-repository</id>
  <name>JRuby Central Development Repository</name>
  <url>dav:https://dav.codehaus.org/snapshots.repository/jruby</url>
 </snapshotRepository>
</distributionManagement>
<repositories>
 <repository>
  <id>maven2-repository.dev.java.net</id>
  <name>Java.net Repository for Maven</name>
  <url>http://download.java.net/maven/2/</url>
 </repository>
 <repository>
  <id>codehaus</id>
  <name>Codehaus Repository</name>
  <releases>
   <enabled>true</enabled>
  </releases>
  <snapshots>
   <enabled>true</enabled>
  </snapshots>
  <url>http://repository.codehaus.org</url>
 </repository>
</repositories>
<pluginRepositories>
 <pluginRepository>
  <id>maven2-repository.dev.java.net</id>
   <name>Java.net Repository for Maven</name>
  <url>http://download.java.net/maven/2/</url>

```
  </pluginRepository>
</pluginRepositories>
<developers>
  <developer>
    <id>wmeissner</id>
    <name>Wayne Meissner</name>
    <email>wmeissner@gmail.com</email>
  </developer>
</developers>
<properties>
  <maven.test.failure.ignore>true</maven.test.failure.ignore>
</properties>
<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.5</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.jruby.extras</groupId>
    <artifactId>jffi</artifactId>
    <version>1.0.6</version>
    <scope>compile</scope>
  </dependency>
  <dependency>
    <groupId>org.jruby.extras</groupId>
    <artifactId>jffi</artifactId>
    <version>1.0.6</version>
    <scope>runtime</scope>
    <classifier>native</classifier>
  </dependency>
  <dependency>
     <groupId>asm</groupId>
    <artifactId>asm</artifactId>
    <version>3.2</version>
    <scope>compile</scope>
  </dependency>
  <dependency>
    <groupId>asm</groupId>
    <artifactId>asm-commons</artifactId>
    <version>3.2</version>
    <scope>compile</scope>
  </dependency>
  <dependency>
    <groupId>org.jruby.extras</groupId>
    <artifactId>jnr-x86asm</artifactId>
    <version>1.0.0</version>
```

```
    <scope>compile</scope>
  </dependency>
</dependencies>
<build>
  <sourceDirectory>src</sourceDirectory>
  <testSourceDirectory>test</testSourceDirectory>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>2.0.2</version>
      <configuration>
        <source>1.5</source>
        <target>1.5</target>
      </configuration>
    </plugin>
    <plugin>
      <artifactId>maven-antrun-plugin</artifactId>
      <version>1.1</version>
       <executions>
        <execution>
          <phase>test-compile</phase>
          <configuration>
            <tasks>
              <exec dir="${basedir}" executable="make" failonerror="true">
                <arg line="-f libtest/GNUmakefile"/>
                <arg line="BUILD_DIR=${build.directory}"/>
              </exec>
            </tasks>
          </configuration>
          <goals>
            <goal>run</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>2.4.2</version>
      <configuration>
        <systemProperties>
          <property>
            <name>jna.library.path</name>
            <value>${build.directory}</value>
          </property>
        </systemProperties>
      </configuration>
```

```
    </plugin>
  </plugins>
  <extensions>
    <extension>
      <groupId>org.jvnet.wagon-svn</groupId>
      <artifactId>wagon-svn</artifactId>
      <version>1.8</version>
    </extension>
    <extension>
      <groupId>org.apache.maven.wagon</groupId>
      <artifactId>wagon-webdav</artifactId>
    </extension>
  </extensions>
 </build>
 <reporting>
   <outputDirectory>build/report</outputDirectory>
 </reporting>
</project>
```

Found in path(s):
* /jaffl-0-5-12-jar/META-INF/maven/org.jruby.extras/jaffl/pom.xml

1.433 jnr-netdb 0.4

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1.435 structured-merge-diff 4.2.1

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1.439 go-colorable 0.1.9

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---
////
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////

[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.
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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
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.)

1.441 elfutils 0.170-1

1.441.1 Available under license :

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1.446 ghodss-yaml 1.0.1-0.20190212211648-25d852aebe32

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1.447 reportlab 0.9

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Requests includes some vendorized python libraries to ease installation.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in
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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

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

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.467 jetty-util 9.4.16.v20190411

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with

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http://openjdk.java.net/legal/gplv2+ce.html

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

Apache

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

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.469 jettison 1.3

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1.470 zstd 1.16.3

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For Blosc - A blocking, shuffling and lossless compression library

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FastLZ - lightning-fast lossless compression library

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1.471 unbound 1.13.0

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1.472 stunnel 5.57

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1.473 pborman-ansi 1.0.0

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1.474 benbjohnson-clock 1.3.0

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1.475 gofrs-uuid 4.2.0+incompatible

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1.476 gosnmp 1.34.0

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1.477 openconfig-gnmi 0.0.0-2020061722544O-d2b4e6a45802

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1.478 go-autorest-adal 0.9.18

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1.482 wireguard-wgctrl 0.0.0-20211230205640-daad0b7ba671

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1.483 go-autorest-cli 0.4.5

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1.484 go-autorest-auth 0.5.11

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1.485 go-mssqldb 0.12.0

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1.486 azure-amqp-common-go 3.2.3

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1.487 antchfx-xmlquery 1.3.9

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1.488 olivere-elastic 6.2.37+incompatible

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1.489 multiplay-go-ts3 1.0.1

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1.490 golang-sql-sqlexp 0.0.0-20170517235910-f1bb20e5a188

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1.491 pion-transport 0.13.0

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1.492 azure-go-amqp 0.17.0

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1.493 vapourismo-knx-go 0.0.0-20211128234507-8198fa17db36

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1.494 azure-event-hubs-go 3.3.17

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1.496 grid-x-modbus 0.0.0-20211113184042-7f2251c342c9

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1.497 golib 3.3.43

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```
package main

import (
 "errors"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "strings"

 "github.com/google/licensecheck"
)

type packageInfo struct {
 name    string
 version string
```

```
 license string
 url     string
 spdx    string
}

func (pkg *packageInfo) ToSPDX() {
 pkg.spdx = nameToSPDX[pkg.license]
}

func (pkg *packageInfo) Classify() (float64, error) {
 // Download the license text
 source, err := normalizeURL(pkg.url)
 if err != nil {
  return 0.0, fmt.Errorf("%q is not a valid URL: %w", pkg.url, err)
 }
 debugf("%q downloading from %q", pkg.name, source)

 response, err := http.Get(source)
 if err != nil {
  return 0.0, fmt.Errorf("download from %q failed: %w", source, err)
 }
 if response.StatusCode < 200 || response.StatusCode > 299 {
  status := response.StatusCode
  return 0.0, fmt.Errorf("download from %q failed %d: %s", source, status, http.StatusText(status))
 }
 defer response.Body.Close()
 text, err := io.ReadAll(response.Body)
 if err != nil {
  return 0.0, fmt.Errorf("reading
 body failed: %w", err)
 }
 if len(text) < 1 {
  return 0.0, errors.New("empty body")
 }

 // Classify the license text
 coverage := licensecheck.Scan(text)
 if len(coverage.Match) == 0 {
  return coverage.Percent, errors.New("no match found")
 }
 match := coverage.Match[0]
 debugf("%q found match: %q with confidence %f%%", pkg.name, match.ID, coverage.Percent)

 if match.ID != pkg.spdx {
  return coverage.Percent, fmt.Errorf("classification %q does not match", match.ID)
 }
 return coverage.Percent, nil
}
```

```
func normalizeURL(raw string) (string, error) {
 u, err := url.Parse(raw)
 if err != nil {
  return "", err
 }

 switch u.Hostname() {
 case "github.com":
  u.Host = "raw.githubusercontent.com"
  var cleaned []string
  for _, p := range strings.Split(u.Path, "/") {
   // Filter out elements
   if p == "blob" {
    continue
   }
   cleaned = append(cleaned, p)
  }
  u.Path = strings.Join(cleaned, "/")
 case "gitlab.com":
  u.Path = strings.Replace(u.Path, "/-/blob/", "/-/raw/", 1)
 case
 "git.octo.it":
  parts := strings.Split(u.RawQuery, ";")
  for i, p := range parts {
   if p == "a=blob" {
    parts[i] = "a=blob_plain"
    break
   }
  }
  u.RawQuery = strings.Join(parts, ";")
 }

 return u.String(), nil
}
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Telegraf used and modified code from these projects

- github.com/DataDog/datadog-agent [Apache License 2.0](https://github.com/DataDog/datadog-agent/blob/main/LICENSE)

Dependency license verification tool

This tool allows the verification of information in
`docs/LICENSE_OF_DEPENDENCIES.md` against the linked license
information. To do so, the license reported by the user is
checked against the license classification of the downloaded
license file for each dependency.

Building

```shell
make build_tools
```

Running

The simplest way to run the verification tool is to execute

```shell
telegraf$ ./tools/license_checker/license_checker
```

using the current directory as telegraf's root directory and verifies
all licenses. Only errors will be reported by default.

There are multiple options you can use to customize the verification.
Take a look at

```shell
telegraf$ ./tools/license_checker/license_checker --help
```

to get an overview.

As the verification tool downloads each license file linked in the
dependency license document, you should be careful on not exceeding
the access limits of e.g. GitHub by running the tool too frequent.

Some
 packages change the license for newer versions. As we always
link to the latest license text the classification might not match
the actual license of our used dependency. Furthermore, some license
text might be wrongly classified, or not classified at all. In these
cases, you can use a _whitelist_ to explicitly state the license
SPDX classifier for those packages.
See the [whitelist section](#whitelist) for more details.

The recommended use in telegraf is to run

```shell
```

```
telegraf$ ./tools/license_checker/license_checker \
        -whitelist ./tools/license_checker/data/whitelist
```

using the code-versioned whitelist. This command will report all
non-matching entries with an `ERR:` prefix.

Whitelist

Whitelist entries contain explicit license information for
a set of packages to use instead of classification. Each entry
in the whitelist is a line of the form

```text
[comparison operator]<package name>[@vX.Y.Z] <license SPDX>
```

where the _comparison operator_ is one of
 `>`, `>=`, `=`, `<=` or `<`
and the _license SPDX_ is a [SPDX license identifier][spdx].
In case no package version is specified, the entry matches all versions
of the library. Furthermore, the comparison operator can be omitted
which is equivalent to an exact match (`=`).

The entries are processed in order until the first match is found.

Here is an example of a whitelist. Assume that you have library
`github.com/foo/bar` which started out with the `MIT` license
until version 1.0.0 where it changed to `EFL-1.0` until it again
changed to `EFL-2.0` starting __after__ version 2.3.0. In this case
the whitelist should look like this

```text
<github.com/foo/bar@v1.0.0 MIT
<=github.com/foo/bar@v2.3.0 EFL-1.0
github.com/foo/bar EFL-2.0
```

All versions below 1.0.0 are matched by the first line and are thus
classified as `MIT`. The second line matches everything that is
above 1.0.0 (thus not matched by the first line) until (and including)
2.3.0. The last line with catch everything that was
 passing the first
two lines i.e. everything after 2.3.0.

[spdx]: https://spdx.org/licenses/
package main

```
import (
 "bufio"
 "log"
 "os"
 "regexp"
 "strings"

 "github.com/coreos/go-semver/semver"
)

type whitelist []whitelistEntry

type whitelistEntry struct {
 Name     string
 Version  *semver.Version
 Operator string
 License  string
}

var re = regexp.MustCompile(`^([<=>]+\s*)?([-\.\/\w]+)(@v[\d\.]+)?\s+([-\.\w]+)$`)

func (w *whitelist) Parse(filename string) error {
 file, err := os.Open(filename)
 if err != nil {
  return err
 }
 defer file.Close()

 // Read file line-by-line and split by semicolon
 lineno := 0
 scanner := bufio.NewScanner(file)
 for scanner.Scan() {
  line := strings.TrimSpace(scanner.Text())
  lineno++
  if strings.HasPrefix(line, "#") {
   // Comment
   continue
  }

  groups := re.FindAllStringSubmatch(line, -1)
  if len(groups) != 1 {
   log.Printf("WARN: Ignoring not matching entry in line %d", lineno)
   continue
  }
  group := groups[0]
  if len(group) != 5 {
   // Malformed
   log.Printf("WARN: Ignoring malformed entry in line %d", lineno)
```

```
  continue
 }

 //
An entry has the form:
 // [operator]<package name>[@version] [license SPDX]
 var operator, version string
 if group[1] != "" {
  operator = strings.TrimSpace(group[1])
 }
 name := group[2]
 if group[3] != "" {
  version = strings.TrimSpace(group[3])
  version = strings.TrimLeft(version, "@v")
 }
 license := strings.TrimSpace(group[4])

 entry := whitelistEntry{Name: name, License: license, Operator: operator}
 if version != "" {
  entry.Version, err = semver.NewVersion(version)
  if err != nil {
   // Malformed
   log.Printf("Ignoring malformed version in line %d: %v", lineno, err)
   continue
  }
  if entry.Operator == "" {
   entry.Operator = "="
  }
 }
 *w = append(*w, entry)
}

 return scanner.Err()
}

func (w *whitelist) Check(pkg, version, spdx string) (ok, found bool) {
 var pkgver semver.Version
 v := strings.TrimSpace(version)
 v = strings.TrimPrefix(v, "v")
 if v != "" {
  pkgver = *semver.New(v)
 }

 for _, entry := range *w {
  if
 entry.Name != pkg {
   continue
  }
```

```
 var match bool
 switch entry.Operator {
 case "":
  match = true
 case "=":
  match = pkgver.Equal(*entry.Version)
 case "<":
  match = pkgver.LessThan(*entry.Version)
 case "<=":
  match = pkgver.LessThan(*entry.Version) || pkgver.Equal(*entry.Version)
 case ">":
  match = !(pkgver.LessThan(*entry.Version) || pkgver.Equal(*entry.Version))
 case ">=":
  match = !pkgver.LessThan(*entry.Version)
 }
 if match {
  return entry.License == spdx, true
 }
}

 return false, false
}
```

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1.498 go-nsq 1.1.0

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1.504 urllib3 1.25.8-2ubuntu0.1

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Upstream-Name: urllib3
Upstream-Contact: Andrey Petrov <andrey.petrov@shazow.net>
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Files: *
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Contributions to the urllib3 project

Creator & Maintainer

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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 <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

* Jess Shapiro <jesse@jesseshapiro.net>

 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl 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 Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]
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1.505 zlib 1.2.12

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* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 11th, 2022

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

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1.506 kubernetes-klog 2.60.1

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1.507 consul 1.12.0

1.507.1 Available under license :

```
<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
  @name={{name}}
 as |group|>

  {{yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)

    isDirty=(and changeset.isValid changeset.isDirty)
    changeset=changeset
  )}}

  <fieldset>
    <div>
      <group.Element
        @name="HeaderType"
```

```
      @type="select"
    as |el|>
      <el.Label>Header type</el.Label>
      <PowerSelect
        @options={{headerTypes}}
        @selected={{headerType}}
        @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
          {{get headerLabels Type}}
      </PowerSelect>
    </group.Element>


    <group.Element
      @name="Name"
      @error={{changeset-get changeset 'error.Name'}}
    as |el|>
      <el.Label>Header name</el.Label>
      <el.Text
        @value={{changeset-get changeset 'Name'}}
        oninput={{action
'change' 'Name' changeset}}
      />
      <State @state={{el.state}} @matches="error">
        <el.Error>
          {{changeset-get changeset 'error.Name.validation'}}
        </el.Error>
      </State>
    </group.Element>

{{#if shouldShowValueField}}
    <group.Element
      @name="Value"
      @error={{changeset-get changeset 'error.Value'}}
    as |el|>
      <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
      <el.Text
        @value={{changeset-get changeset 'Value'}}
        oninput={{action 'change' 'Value' changeset}}
      />
      <State @state={{el.state}} @matches="error">
        <el.Error>
          {{changeset-get changeset 'error.Value.validation'}}
        </el.Error>
      </State>
    </group.Element>
{{/if}}

  </div>
```

```
  </fieldset>
 </FormGroup>
</div>
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

| Method | Path               | Produces           |
| ------ | ------------------ | ------------------ |
| `GET`  | `/operator/license` | `application/json` |

The table below shows this endpoint's support for
[blocking queries](/api-docs/features/blocking),
[consistency modes](/api-docs/features/consistency),
[agent caching](/api-docs/features/caching), and
[required ACLs](/api#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| ---------------- | ----------------- | ------------- | ------------
 |
| `NO`             | `all`             | `none`        | `none`       |

The corresponding CLI command is [`consul license get`](/commands/license#get).

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.
 This is specified as a URL query parameter.

### Sample Request

```shell-session
```
```

```
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
   "package": "premium"
  },
  "features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced
 Read Scalability",
   "Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation"
  ],
  "temporary": false
 },
 "Warnings": []
}
```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the
license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for

[blocking queries](/api-docs/features/blocking),
[consistency modes](/api-docs/features/consistency),
[agent caching](/api-docs/features/caching), and
[required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license put`](/commands/license#put).

Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.
 This is specified as a URL query parameter.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
    "package": "premium"
  },
  "features": [
```

```
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/api-docs/features/blocking),
[consistency modes](/api-docs/features/consistency),
[agent caching](/api-docs/features/caching), and
[required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license reset`](/commands/license#reset).

Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.
 This is specified as a URL query parameter.

Sample Request

```shell-session
$ curl \
```

```
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
  "flags": {
   "package": "premium"
  },
  "features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",
   "Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation"
  ],
  "temporary": false
 },
 "Warnings": []
}
```
```
<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
  submit=(action 'submit' changeset)
  reset=(action 'reset' changeset)

  isDirty=(and changeset.isValid)
  changeset=changeset
 )}}
```

```
<fieldset>
  <div data-property="action">
    <span class="label">
      Should this permission allow the source connect to the destination?
    </span>
    <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
      {{#each intents as |intent|}}
        <label>
          <span>{{capitalize intent}}</span>
          <input
            type="radio"
            name="Action"
            value={{intent}}
            checked={{if (eq changeset.Action intent) 'checked'}}
            onchange={{action (changeset-set changeset 'Action') value="target.value"}}
          />
        </label>
      {{/each}}
    </div>
  </div>
</fieldset>

<fieldset>
  <header>
    <h2>Path</h2>
  </header>
  <div>
      <group.Element
        @name="PathType"
        @type="select"
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
```

```
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}

            Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}
```

```
          checked={{if (contains method changeset.HTTP.Methods) 'checked'}}

      onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <button
    data-test-add-header
    type="button"
    class="type-submit"
    disabled={{if (not this.headerForm.isDirty) 'disabled'}}
    onclick={{action this.headerForm.submit}}
  >
    Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
  </button>
   <button
    type="button"
    class="type-cancel"
    onclick={{action this.headerForm.reset}}
  >
    Cancel
  </button>

 </fieldset>
 </FormGroup>
</div>
```

```
.consul-intention-permission-form {
 h2 {
  padding-top: 1.4em;
  margin-top: 0.2em;
  margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
  margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
  grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
  grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
  padding: 5px;
 }
 .checkbox-group {
  flex-direction: column;
 }
}
.consul-intention-permission-form {
 h2 {
  border-top: 1px solid rgb(var(--tone-blue-500));
  @extend %h200;
 }
 button.type-submit {
  @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
  @extend %frame-blue-500;
 }
 button.type-submit:disabled {
  @extend %frame-blue-200;
 }
}
<Notice
 @type="info"
as |notice|>
 <notice.Body>
  <p>
   {{t "components.consul.intention.notice.permissions.body"}}
  </p>
```

```
 </notice.Body>
 <notice.Footer>
  <p>
    <a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
      {{t "components.consul.intention.notice.permissions.footer"}}
    </a>
  </p>
 </notice.Footer>
</Notice>
```

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```
.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
```

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```
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
```

```
---
layout: docs
page_title: Consul Enterprise License
description: Consul Enterprise License Overview.
---

# Consul Enterprise License

## Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

-> Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)
 for detailed steps on how to install the license key.

### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included
in the binary and you do not need to take further action. This is the
most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and
```

`+prem` in the name, are the binaries that include the license. The package
with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.
For server agents this means that they must either have the [`license_path`](/docs/agent/config/config-files#license_path)
configuration set or have a license configured in the servers
environment with the `CONSUL_LICENSE` or
`CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the
`CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token
to authorize the
request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the
[`start_join`](/docs/agent/config/config-files#start_join)
or [`retry_join`](/docs/agent/config/config-files#retry_join) configurations. If those are both unset or no [`agent` token](/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining
the cluster.

1. `CONSUL_LICENSE` environment variable

2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.
---
layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

Prerequisites
Prior to setting up the data integration between Vault and Consul on Kubernetes, you will need to have:
1. Read and completed the steps in the [Systems Integration](/docs/k8s/installation/vault/systems-integration) section of [Vault as a Secrets Backend](/docs/k8s/installation/vault).
2. Read the [Data Integration Overview](/docs/k8s/installation/vault/data-integration) section of [Vault as a Secrets Backend](/docs/k8s/installation/vault).

Overview
To use an enterprise license stored in Vault, we will follow the steps outlined in the [Data Integration](/docs/k8s/installation/vault/data-integration) section:

One time setup in Vault
1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

###
Setup per Consul datacenter
1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
1. Configure the Vault Kubernetes auth role in the Consul on Kubernetes helm chart.

One time setup in Vault
Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put secret/consul/license key="<enterprise license>"
```

Create a Vault policy that authorizes the desired level of access to the secret

-> **Note:** The secret path referenced by the Vault Policy below will be your `global.enterpriseLicense.secretName` Helm value.

Next, you will need to create a policy that allows read access to this secret:

<CodeBlockConfig filename="license-policy.hcl">

```HCL
path "secret/data/consul/license" {
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy
 license-policy.hcl
```

Setup per Consul datacenter
Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
   bound_service_account_names=<Consul server service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
   bound_service_account_names=<Consul client service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

To find out the service account names of the Consul server and client,

you can run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name
 ```shell-session
  $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul
 ```

- Generate Consul client service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul
 ```

Configure the Vault Kubernetes auth role in the Consul on Kubernetes helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
global:
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
 enterpriseLicense:
   secretName: secret/data/consul/enterpriselicense
   secretKey: key
```

</CodeBlockConfig>

Note that `global.enterpriseLicense.secretName` is the path of the secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey`
 is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.

Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a datacenter-level view of the Consul Enterprise license. This was added
in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands for managing
 the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

    $ consul license put @consul.license

 Install a new license from stdin:

    $ consul license put -

 Install a new license from a string:

    $ consul license put "<license blob>"

 Retrieve the current license:

    $ consul license get

 Inspect a license:

    $ consul license inspect "<path to license file>"

 Reset the current license:

    $ consul license reset

 For more examples, ask for subcommand help or view the documentation.
```

Subcommands:
  get   Get the active license
  inspect   Inspect a signed license
  put   Puts a new license in the datacenter
  reset   Resets the license in the datacenter

```

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file on disk or from the
 `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale
    Governance
```
```

and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
    Namespaces
    SSO
    Audit Logging
    Admin Partitions

License is valid

```

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/api#authentication). Configuration of
[blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.

| ACL Required |
| ---------- |
| `operator:write` |

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text

License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/api-docs/operator/license#getting-the-consul-license)

This command gets the Consul Enterprise license.

The table below shows this command's [required ACLs](/api#authentication). Configuration of
[blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching)
are not supported from commands,
 but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
```
```

Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/api-docs/operator/license#resetting-the-consul-license)

Resets
 license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/api#authentication). Configuration of
[blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.

| ACL Required |
| ---------- |
| `operator:write` |

Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
```
```

```
      Automated Backups
      Automated Upgrades
      Enhanced Read Scalability
       Network Segments
      Redundancy Zone
      Advanced Network Federation
```
```
@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
<div
 class="notice {{or @type 'info'}}"
 ...attributes
>
{{yield (hash
 Header=(component 'anonymous' tagName="header")
 Body=(component 'anonymous')
 Footer=(component 'anonymous' tagName="footer")
)}}
</div>
<Route
 @name={{routeName}}
as |route|>
 <DataLoader
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition=route.params.partition
       nspace=route.params.nspace
       dc=route.params.dc
     )
   }}
 as |loader|>
```

```
{{#let
 loader.data
as |item|}}
  <BlockSlot @name="error">
    <ErrorState
      @error={{loader.error}}
      @login={{route.model.app.login.open}}
    />
  </BlockSlot>

  <BlockSlot @name="disconnected" as |after|>
    {{#if (eq loader.error.status "404")}}
      <Notice
        {{notification
          sticky=true
        }}
        class="notification-update"
        @type="warning"
      as |notice|>
        <notice.Header>
          <strong>Warning!</strong>
        </notice.Header>
        <notice.Body>
          <p>
            This service has been deregistered and no longer exists in the catalog.
          </p>
        </notice.Body>
      </Notice>
    {{else if (eq
 loader.error.status "403")}}
      <Notice
        {{notification
          sticky=true
        }}
        class="notification-update"
        @type="error"
      as |notice|>
        <notice.Header>
          <strong>Error!</strong>
        </notice.Header>
        <notice.Body>
          <p>
            You no longer have access to this service
          </p>
        </notice.Body>
      </Notice>
    {{else}}
      <Notice
```

```
    {{notification
      sticky=true
    }}
    class="notification-update"
    @type="warning"
  as |notice|>
    <notice.Header>
      <strong>Warning!</strong>
    </notice.Header>
    <notice.Body>
      <p>
        An error was returned whilst loading this data, refresh to try again.
      </p>
    </notice.Body>
  </Notice>
 {{/if}}
</BlockSlot>

<BlockSlot @name="loaded">
 <div class="tab-section">
  <section
    class={{class-map
     'validity'
     (array 'valid' item.Valid)
    }}
  >
    <header>
      <h2>
        {{compute (fn route.t 'expiry.header')}}
      </h2>
    </header>

    <p>
      {{compute (fn route.t 'expiry.${type}.body'
        (hash
          type=(if item.Valid 'valid' 'expired')
          date=(format-time item.License.expiration_time
            year='numeric'
            month='long'
            day='numeric'
          )
          time=(format-time item.License.expiration_time
            hour12=true
            hour='numeric'
            hourCycle='h12'
            minute='numeric'
            second='numeric'
            timeZoneName='short'
```

```
            )
            htmlSafe=true
          )
        )}}
      </p>

      <dl>
        <dt class={{class-map
          (array
'valid' item.Valid)
          (array 'expired' (not item.Valid))
          (array 'warning' (temporal-within item.License.expiration_time 2629800000))
        }}
        >
          {{compute (fn route.t 'expiry.${type}.header'
            (hash
              type=(if item.Valid 'valid' 'expired')
            )
          )}}
        </dt>
        <dd>
          {{temporal-format item.License.expiration_time}}
        </dd>
      </dl>

      <aside>
        <header>
          <h3>
            {{compute (fn route.t 'documentation.title')}}
          </h3>
        </header>
        {{compute (fn route.t 'documentation.body'
          (hash
            htmlSafe=true
          )
        )}}
      </aside>

    </section>
  </div>
 </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
.consul-intention-permission-list {
 .detail > div {
  display: flex;
  width: 100%;
```

```
 }
 strong {
   margin-right: 8px;
 }
}
---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
 Consul-Terraform-Sync Enterprise License
---

# Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
 Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

## Setting the License

Choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable
 to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

  ```shell-session
  export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
  ```

1. Configure the [`license_path`](/docs/nia/configuration#license_path) option in the configuration file to point to the file containing the license.

  ```hcl
```
```

```
license_path = "<PATH>/<TO>/<FILE>"
```

~> **Note**: the [options to set the license and the order of precedence](/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

Updating the License

The previous section describes options for [setting the license](#setting-the-license) needed to start running CTS Enterprise. Use the following procedure to update the license when it expires or is near the expiration date:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, CTS Enterprise will provide notifications in the system logs:

Time period	Behavior
30 days before expiration	Warning-level log every 24-hours
7 days before expiration	Warning-level log every 1 hour
1 hour before expiration	Warning-level log every 1 minute
1 day before expiration	Warning-level log every 5 minutes
At or after expiration (before termination)	Error-level log every 1 minute
At or after termination	Error-level log and exit

~> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

```
{
 "Valid": true,
 "License": {
   "license_id": "${fake.random.uuid()}",
   "customer_id": "${fake.random.uuid()}",
```

```
  "installation_id": "*",
  "issue_time": "2021-01-13T15:25:19.052900132Z",
  "start_time": "2021-01-13T00:00:00Z",
  "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
  "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
  "product": "consul",
  "flags": {
    "modules": [
      "global-visibility-routing-scale",
      "governance-policy"
    ]
  },
  "modules": [
    "Global Visibility, Routing and Scale",
    "Governance and Policy"
  ],
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation",
    "Namespaces",
    "SSO",
    "Audit Logging",
    "Admin Partitions"
  ]
 },
 "Warnings": [
 ]
}
.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
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```hbs preview-template
<figure>
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
  @src={{
   uri '/${partition}/${nspace}/${dc}/license'
   (hash
    partition='partition'
    nspace='ns'
    dc='dc-1'
   )
  }}
  @onchange={{action (mut data) value="data"}}
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
```

```
</figure>
```
```
.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
     </dd>
   </dl>
 </BlockSlot>
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
       </BlockSlot>
       <BlockSlot @name="confirmation" as |Confirmation|>
         <Confirmation class="warning">
           <BlockSlot @name="header">
             Confirm delete
           </BlockSlot>
           <BlockSlot @name="body">
             <p>
```

```
            Are you sure you want to delete this header?
          </p>
        </BlockSlot>
        <BlockSlot @name="confirm" as |Confirm|>
          <Confirm>Delete</Confirm>
        </BlockSlot>
      </Confirmation>
    </BlockSlot>
  </Action>
 </Actions>
</BlockSlot>
</ListCollection>
{{/if}}
---
layout: docs
page_title: Consul Enterprise License FAQ
description: Frequently Asked Questions pertaining to Consul Enterprise Licensing.
---

# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

## Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during
 the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

## Q: Is there a tutorial available for the license configuration steps?
```

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/docs/enterprise/upgrades)

-
[Consul License Documentation](/docs/enterprise/license/overview)

- [License configuration values documentation](/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul
Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation after license *expiration* as defined in

[`expiration_time`](/api-docs/operator/license#getting-the-consul-license).
As license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will
only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/api-docs/operator/license#getting-the-consul-license).

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses
of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Visit [consul.io/trial](/trial) for a free 30-day trial license.

~> **Trial install will cease operation 24 hours after 30-day license expiration**:
Trial licenses are not meant to be used in production.
This is unlike non-trial licenses which provide a 10 year grace period as described in
the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's HashiCorp account team or email support-softwaredelivery@hashicorp.com
for information on how to renew your organization's

enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's HashiCorp account team or email support-softwaredelivery@hashicorp.com
for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this impact HCP Consul?

This will not impact HCP Consul.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license
every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/commands/license#get) to extract the license from their running
cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-

license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once
you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

~> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your
organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Set up the necessary configuration
so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A.
This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```

```
package api

import (
 "io/ioutil"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
```

```
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list
 of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
```

```
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If
 the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}
```

```
// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r
 := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
```

Notice

Presentational component for informational/warning/error banners/notices.

```hbs preview-template
<Notice
 @type={{this.type}}
as |notice|>
 <notice.Header>
   <h3>Header</h3>
 </notice.Header>
 <notice.Body>
   <p>
     Body
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="">Footer link</a>
   </p>
 </notice.Footer>
</Notice>
```

<figure>
 <figcaption>Provide a widget to change the <code>@type</code></figcaption>

 <select
  onchange={{action (mut this.type) value="target.value"}}
 >
  <option>info</option>
  <option>success</option>
  <option>warning</option>
  <option>error</option>
 </select>

</figure>
```

## Arguments

| Argument/Attribute | Type | Default | Description |
| --- | --- | --- | --- |
| `type` | `String` | `info` | Type of notice [info\|warning\|error] |

## See

- [Template Source Code](./index.hbs)

---
%notice {
 position: relative;
 padding: 0.8rem;
}
%notice header {
 margin-bottom: 0.1rem;
}
%notice header > * {
 margin-bottom: 0;
}
%notice p {
 margin-bottom: 0.3rem;
 line-height: 1.4;
}
/* this is probably skin */
%notice {
 padding-left: calc(0.8rem + 1.4rem);
}
%notice::before {
 position: absolute;
 top: 0.8rem;
```

```
 left: 0.6rem;
 font-size: 1rem;
}
{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
  <div onclick={{action (optional onclick) item}}>
   <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
     <dl class="permission-methods">
       <dt>
         <Tooltip>
           Methods
         </Tooltip>
       </dt>
       <dd>
{{#each item.HTTP.Methods as |item|}}
         {{item}}
{{/each}}
       </dd>
     </dl>
{{/if}}
{{#if item.HTTP.Path}}
     <dl class="permission-path">
       <dt>
         <Tooltip>
           {{item.HTTP.PathType}}
         </Tooltip>
       </dt>
       <dd>
         {{item.HTTP.Path}}
       </dd>
     </dl>
{{/if}}
{{#each item.HTTP.Header as |item|}}
     <dl class="permission-header">
       <dt>
          <Tooltip>
           Header
         </Tooltip>
       </dt>
       <dd>
         {{item.Name}} {{route-match item}}
```

```
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
   <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
    <BlockSlot @name="label">
     Edit
    </BlockSlot>
   </Action>
   <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
    <BlockSlot @name="label">
     Delete
    </BlockSlot>
    <BlockSlot @name="confirmation" as |Confirmation|>
     <Confirmation class="warning">
      <BlockSlot @name="header">
       Confirm delete
      </BlockSlot>
      <BlockSlot @name="body">
       <p>
        Are you sure you want to delete this permission?
       </p>
      </BlockSlot>
      <BlockSlot @name="confirm" as |Confirm|>
       <Confirm>Delete</Confirm>
      </BlockSlot>
     </Confirmation>
    </BlockSlot>
   </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
@import './skin';
@import './layout';
section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
```

```
}

%license-route h2 {
 @extend %h200;
}

%license-validity p {
 color: rgb(var(--tone-gray-700));
}
%license-validity dl {
 @extend %horizontal-kv-list;
 font-size: var(--typo-size-400);
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: rgb(var(--red-500));
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: rgb(var(--orange-500));
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: rgb(var(--green-500));
}

%license-route-learn-more {
 @extend %panel;
 box-shadow: var(--decor-elevation-000);
 padding: var(--padding-y)
 var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %h300;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
```

```
%license-route-learn-more li {
 margin-bottom: 0.25rem; /* 4px */
}
%license-route-learn-more a::before {
 --icon-name: icon-docs-link;
 content: '';
 margin-right: 0.375rem; /* 6px */
}
```

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```
<Notice
 class="consul-intention-notice-custom-resource crd"
 ...attributes
 @type={{or @type "info"}}
as |notice|>
 <notice.Header>
  <h3>
   Intention Custom Resource
  </h3>
 </notice.Header>
 <notice.Body>
  <p>
   Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.
  </p>
 </notice.Body>
 <notice.Footer>
  <p>
   <a href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds" target="_blank" rel="noopener noreferrer">Learn more about CRDs</a>
  </p>
 </notice.Footer>
</Notice>
@import './skin';
@import './layout';

%notice {
 margin: 1em 0;
}
/**/
.notice.success {
 @extend %notice-success;
}
.notice.warning {
 @extend %notice-warning;
```

```
}
.notice.error {
 @extend %notice-error;
}
.notice.info {
 @extend %notice-info;
}
.notice.highlight {
 @extend %notice-highlight;
}
.notice.policy-management {
 @extend %notice-highlight;
}
.notice.crd::before {
 -webkit-mask-image: none;
 mask-image: none;
 background-color: transparent;
 @extend %with-logo-kubernetes-color-icon;
}
%notice {
 border-radius: var(--decor-radius-100);
 border: var(--decor-border-100);
 color: rgb(var(--tone-gray-999));
}
%notice::before {
 @extend %as-pseudo;
}
%notice header > * {
 @extend %h300;
}
%notice footer * {
 @extend %p3;
 font-weight: var(--typo-weight-bold);
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
 @extend %notice;
}
%notice-success {
 background-color: rgb(var(--tone-green-050));
 border-color: rgb(var(--tone-green-500));
}
%notice-success header * {
 color: rgb(var(--tone-green-800));
}
```

```
%notice-info {
 border-color: rgb(var(--tone-blue-100));
 background-color: rgb(var(--tone-blue-010));
}
%notice-info header * {
 color: rgb(var(--tone-blue-700));
}
%notice-highlight {
 background-color: rgb(var(--tone-gray-050));
 border-color: rgb(var(--tone-gray-300));
}
%notice-info header * {
 color: rgb(var(--tone-blue-700));
}
%notice-warning {
 border-color: rgb(var(--tone-yellow-100));
 background-color: rgb(var(--tone-yellow-050));
}
%notice-warning
 header * {
 color: rgb(var(--tone-yellow-800));
}
%notice-error {
 background-color: rgb(var(--tone-red-050));
 border-color: rgb(var(--tone-red-500));
}
%notice-error header * {
 color: rgb(var(--tone-red-500));
}
%notice-success::before {
 @extend %with-check-circle-fill-mask;
 color: rgb(var(--tone-green-500));
}
%notice-info::before {
 @extend %with-info-circle-fill-mask;
 color: rgb(var(--tone-blue-500));
}
%notice-highlight::before {
 @extend %with-star-fill-mask;
 color: rgb(var(--tone-yellow-500));
}
%notice-warning::before {
 @extend %with-alert-triangle-mask;
 color: rgb(var(--tone-orange-500));
}
%notice-error::before {
 @extend %with-cancel-square-fill-mask;
 color: rgb(var(--tone-red-500));
```

}

1.508 zstd 1.4.5

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1.509 protobuf 1.28.0

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* /grpc-protobuf-1-28-0-sources-1-jar/io/grpc/protobuf/StatusProto.java
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1.511 purell 1.1.1

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1.512 pcre 10.40

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1.513 stateless4j 2.5.0

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1.514 servlet-api 3.1.0

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1.522 go-connections 0.4.0

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1.523 errors 0.9.1

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1.526 jwalterweatherman 1.1.0

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1.529 logrus 1.8.1

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1.540 showwin-speedtest-go 1.1.5

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1.541 newrelic-newrelic-telemetry-sdk-go 0.8.1

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1.542 clickhouse-clickhouse-go 1.5.4

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1.543 xdg-scram 1.0.5

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1.544 atomic 1.9.0

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1.545 aerospike-aerospike-client-go 5.7.0

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1.546 gopcua-opcua 0.3.3

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```
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-->

<opc:TypeDictionary
 xmlns:opc="http://opcfoundation.org/BinarySchema/"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns:ua="http://opcfoundation.org/UA/"
 xmlns:tns="http://opcfoundation.org/UA/"
 DefaultByteOrder="LittleEndian"
 TargetNamespace="http://opcfoundation.org/UA/"
>

 <opc:Import Namespace="http://opcfoundation.org/BinarySchema/" />

 <opc:StructuredType Name="XmlElement">
  <opc:Documentation>An XML element encoded as a UTF-8 string.</opc:Documentation>
  <opc:Field Name="Length" TypeName="opc:Int32" />
  <opc:Field Name="Value" TypeName="opc:Char" LengthField="Length" />
 </opc:StructuredType>

 <opc:EnumeratedType
 Name="NodeIdType" LengthInBits="6">
  <opc:Documentation>The possible encodings for a NodeId value.</opc:Documentation>
  <opc:EnumeratedValue Name="TwoByte" Value="0" />
  <opc:EnumeratedValue Name="FourByte" Value="1" />
  <opc:EnumeratedValue Name="Numeric" Value="2" />
  <opc:EnumeratedValue Name="String" Value="3" />
  <opc:EnumeratedValue Name="Guid" Value="4" />
  <opc:EnumeratedValue Name="ByteString" Value="5" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="TwoByteNodeId">
  <opc:Field Name="Identifier" TypeName="opc:Byte" />
 </opc:StructuredType>

 <opc:StructuredType Name="FourByteNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:Byte" />
  <opc:Field Name="Identifier" TypeName="opc:UInt16" />
 </opc:StructuredType>

 <opc:StructuredType Name="NumericNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:StructuredType
```

```
 Name="StringNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:CharArray" />
 </opc:StructuredType>

 <opc:StructuredType Name="GuidNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:Guid" />
 </opc:StructuredType>

 <opc:StructuredType Name="ByteStringNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:ByteString" />
 </opc:StructuredType>

 <opc:StructuredType Name="NodeId">
  <opc:Documentation>An identifier for a node in a UA server address space.</opc:Documentation>
  <opc:Field Name="NodeIdType" TypeName="ua:NodeIdType" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId" SwitchField="NodeIdType" SwitchValue="0" />
  <opc:Field Name="FourByte" TypeName="ua:FourByteNodeId" SwitchField="NodeIdType" SwitchValue="1"
/>
  <opc:Field Name="Numeric" TypeName="ua:NumericNodeId" SwitchField="NodeIdType" SwitchValue="2" />
  <opc:Field Name="String" TypeName="ua:StringNodeId" SwitchField="NodeIdType" SwitchValue="3" />
  <opc:Field Name="Guid" TypeName="ua:GuidNodeId" SwitchField="NodeIdType" SwitchValue="4" />
  <opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId" SwitchField="NodeIdType"
SwitchValue="5" />
 </opc:StructuredType>

 <opc:StructuredType Name="ExpandedNodeId">
  <opc:Documentation>An identifier for a node in a UA server address space qualified with a complete namespace
string.</opc:Documentation>
  <opc:Field Name="NodeIdType" TypeName="ua:NodeIdType" />
  <opc:Field Name="ServerIndexSpecified" TypeName="opc:Bit" />
  <opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit" />
  <opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId" SwitchField="NodeIdType" SwitchValue="0" />
  <opc:Field Name="FourByte" TypeName="ua:FourByteNodeId" SwitchField="NodeIdType"
 SwitchValue="1" />
  <opc:Field Name="Numeric" TypeName="ua:NumericNodeId" SwitchField="NodeIdType" SwitchValue="2" />
  <opc:Field Name="String" TypeName="ua:StringNodeId" SwitchField="NodeIdType" SwitchValue="3" />
  <opc:Field Name="Guid" TypeName="ua:GuidNodeId" SwitchField="NodeIdType" SwitchValue="4" />
  <opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId" SwitchField="NodeIdType"
SwitchValue="5" />
  <opc:Field Name="NamespaceURI" TypeName="opc:CharArray" SwitchField="NamespaceURISpecified"/>
  <opc:Field Name="ServerIndex" TypeName="opc:UInt32" SwitchField="ServerIndexSpecified"/>
 </opc:StructuredType>

 <opc:OpaqueType Name="StatusCode" LengthInBits="32" ByteOrderSignificant="true">
```

```
  <opc:Documentation>A 32-bit status code value.</opc:Documentation>
 </opc:OpaqueType>

 <opc:StructuredType Name="DiagnosticInfo">
  <opc:Documentation>A recursive structure containing diagnostic information associated with a status
code.</opc:Documentation>
   <opc:Field Name="SymbolicIdSpecified" TypeName="opc:Bit" />
  <opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit" />
  <opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
  <opc:Field Name="LocalizedTextSpecified" TypeName="opc:Bit" />
  <opc:Field Name="AdditionalInfoSpecified" TypeName="opc:Bit" />
  <opc:Field Name="InnerStatusCodeSpecified" TypeName="opc:Bit" />
  <opc:Field Name="InnerDiagnosticInfoSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="SymbolicId" TypeName="opc:Int32" SwitchField="SymbolicIdSpecified" />
  <opc:Field Name="NamespaceURI" TypeName="opc:Int32" SwitchField="NamespaceURISpecified" />
  <opc:Field Name="Locale" TypeName="opc:Int32" SwitchField="LocaleSpecified" />
  <opc:Field Name="LocalizedText" TypeName="opc:Int32" SwitchField="LocalizedTextSpecified" />
  <opc:Field Name="AdditionalInfo" TypeName="opc:CharArray" SwitchField="AdditionalInfoSpecified"
 />
  <opc:Field Name="InnerStatusCode" TypeName="ua:StatusCode" SwitchField="InnerStatusCodeSpecified" />
  <opc:Field Name="InnerDiagnosticInfo" TypeName="ua:DiagnosticInfo"
SwitchField="InnerDiagnosticInfoSpecified" />
 </opc:StructuredType>

 <opc:StructuredType Name="QualifiedName">
  <opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Name" TypeName="opc:CharArray" />
 </opc:StructuredType>

 <opc:StructuredType Name="LocalizedText">
  <opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
  <opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
  <opc:Field Name="TextSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="6" />
  <opc:Field Name="Locale" TypeName="opc:CharArray" SwitchField="LocaleSpecified" />
  <opc:Field Name="Text" TypeName="opc:CharArray" SwitchField="TextSpecified"
 />
 </opc:StructuredType>

 <opc:StructuredType Name="DataValue">
  <opc:Documentation>A value with an associated timestamp, and quality.</opc:Documentation>
  <opc:Field Name="ValueSpecified" TypeName="opc:Bit" />
  <opc:Field Name="StatusCodeSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourceTimestampSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourcePicosecondsSpecified" TypeName="opc:Bit" />
  <opc:Field Name="ServerTimestampSpecified" TypeName="opc:Bit" />
```

```
  <opc:Field Name="ServerPicosecondsSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="Value" TypeName="ua:Variant" SwitchField="ValueSpecified" />
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" SwitchField="StatusCodeSpecified" />
  <opc:Field Name="SourceTimestamp" TypeName="opc:DateTime" SwitchField="SourceTimestampSpecified" />
  <opc:Field Name="SourcePicoseconds" TypeName="opc:UInt16" SwitchField="SourcePicosecondsSpecified"
/>
  <opc:Field Name="ServerTimestamp" TypeName="opc:DateTime" SwitchField="ServerTimestampSpecified" />
  <opc:Field Name="ServerPicoseconds" TypeName="opc:UInt16" SwitchField="ServerPicosecondsSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="ExtensionObject">
  <opc:Documentation>A serialized object prefixed with its data type identifier.</opc:Documentation>
  <opc:Field Name="TypeIdSpecified" TypeName="opc:Bit" />
  <opc:Field Name="BinaryBody" TypeName="opc:Bit" />
  <opc:Field Name="XmlBody" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="5" />
  <opc:Field Name="TypeId" TypeName="ua:ExpandedNodeId" SwitchField="TypeIdSpecified" />
  <opc:Field Name="BodyLength" TypeName="opc:Int32" />
  <opc:Field Name="Body" TypeName="opc:Byte" LengthField="BodyLength" />
</opc:StructuredType>

<opc:StructuredType Name="Variant">
  <opc:Documentation>A union of several types.</opc:Documentation>
  <opc:Field
Name="VariantType" TypeName="opc:Bit" Length="6" />
  <opc:Field Name="ArrayDimensionsSpecified" TypeName="opc:Bit" Length="1"/>
  <opc:Field Name="ArrayLengthSpecified" TypeName="opc:Bit" Length="1"/>
  <opc:Field Name="ArrayLength" TypeName="opc:Int32" SwitchField="ArrayLengthSpecified" />
  <opc:Field Name="Boolean" TypeName="opc:Boolean" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="1" />
  <opc:Field Name="SByte" TypeName="opc:SByte" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="2" />
  <opc:Field Name="Byte" TypeName="opc:Byte" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="3" />
  <opc:Field Name="Int16" TypeName="opc:Int16" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="4" />
  <opc:Field Name="UInt16" TypeName="opc:UInt16" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="5" />
  <opc:Field Name="Int32" TypeName="opc:Int32" LengthField="ArrayLength" SwitchField="VariantType"
 SwitchValue="6" />
  <opc:Field Name="UInt32" TypeName="opc:UInt32" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="7" />
  <opc:Field Name="Int64" TypeName="opc:Int64" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="8" />
  <opc:Field Name="UInt64" TypeName="opc:UInt64" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="9" />
  <opc:Field Name="Float" TypeName="opc:Float" LengthField="ArrayLength" SwitchField="VariantType"
```

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SwitchValue="10" />
  <opc:Field Name="Double" TypeName="opc:Double" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="11" />
  <opc:Field Name="String" TypeName="opc:CharArray" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="12" />
  <opc:Field Name="DateTime" TypeName="opc:DateTime" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="13" />
  <opc:Field Name="Guid" TypeName="opc:Guid" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="14"
 />
  <opc:Field Name="ByteString" TypeName="opc:ByteString" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="15" />
  <opc:Field Name="XmlElement" TypeName="ua:XmlElement" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="16" />
  <opc:Field Name="NodeId" TypeName="ua:NodeId" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="17" />
  <opc:Field Name="ExpandedNodeId" TypeName="ua:ExpandedNodeId" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="18" />
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="19" />
  <opc:Field Name="QualifiedName" TypeName="ua:QualifiedName" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="20" />
  <opc:Field Name="LocalizedText" TypeName="ua:LocalizedText" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="21" />
  <opc:Field Name="ExtensionObject" TypeName="ua:ExtensionObject"
 LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="22" />
  <opc:Field Name="DataValue" TypeName="ua:DataValue" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="23" />
  <opc:Field Name="Variant" TypeName="ua:Variant" LengthField="ArrayLength" SwitchField="VariantType"
SwitchValue="24" />
  <opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" LengthField="ArrayLength"
SwitchField="VariantType" SwitchValue="25" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" SwitchField="ArrayDimensionsSpecified"
/>
  <opc:Field Name="ArrayDimensions" TypeName="opc:Int32" LengthField="NoOfArrayDimensions"
SwitchField="ArrayDimensionsSpecified" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="NamingRuleType" LengthInBits="32">
  <opc:EnumeratedValue Name="Mandatory" Value="1" />
  <opc:EnumeratedValue Name="Optional" Value="2" />
  <opc:EnumeratedValue Name="Constraint" Value="3" />
 </opc:EnumeratedType>


 <opc:OpaqueType
 Name="ImageBMP">
  <opc:Documentation>An image encoded in BMP format.</opc:Documentation>
```

```
</opc:OpaqueType>

<opc:OpaqueType Name="ImageGIF">
  <opc:Documentation>An image encoded in GIF format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImageJPG">
  <opc:Documentation>An image encoded in JPEG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImagePNG">
  <opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="AudioDataType">
  <opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="BitFieldMaskDataType">
  <opc:Documentation>A mask of 32 bits that can be updated individually by using the top 32 bits as a
mask.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="KeyValuePair" BaseType="ua:ExtensionObject">
  <opc:Field Name="Key" TypeName="ua:QualifiedName" />
  <opc:Field Name="Value"
TypeName="ua:Variant" />
</opc:StructuredType>

<opc:StructuredType Name="AdditionalParametersType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfParameters" TypeName="opc:Int32" />
  <opc:Field Name="Parameters" TypeName="tns:KeyValuePair" LengthField="NoOfParameters" />
</opc:StructuredType>

<opc:StructuredType Name="EphemeralKeyType" BaseType="ua:ExtensionObject">
  <opc:Field Name="PublicKey" TypeName="opc:ByteString" />
  <opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointType" BaseType="ua:ExtensionObject">
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
  <opc:Field Name="TransportProfileUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="OpenFileMode" LengthInBits="32">
  <opc:EnumeratedValue Name="Read"
```

```
Value="1" />
  <opc:EnumeratedValue Name="Write" Value="2" />
  <opc:EnumeratedValue Name="EraseExisting" Value="4" />
  <opc:EnumeratedValue Name="Append" Value="8" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="IdentityCriteriaType" LengthInBits="32">
  <opc:EnumeratedValue Name="UserName" Value="1" />
  <opc:EnumeratedValue Name="Thumbprint" Value="2" />
  <opc:EnumeratedValue Name="Role" Value="3" />
  <opc:EnumeratedValue Name="GroupId" Value="4" />
  <opc:EnumeratedValue Name="Anonymous" Value="5" />
  <opc:EnumeratedValue Name="AuthenticatedUser" Value="6" />
</opc:EnumeratedType>

<opc:StructuredType Name="IdentityMappingRuleType" BaseType="ua:ExtensionObject">
  <opc:Field Name="CriteriaType" TypeName="tns:IdentityCriteriaType" />
  <opc:Field Name="Criteria" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="TrustListMasks" LengthInBits="32">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue
Name="TrustedCertificates" Value="1" />
  <opc:EnumeratedValue Name="TrustedCrls" Value="2" />
  <opc:EnumeratedValue Name="IssuerCertificates" Value="4" />
  <opc:EnumeratedValue Name="IssuerCrls" Value="8" />
  <opc:EnumeratedValue Name="All" Value="15" />
</opc:EnumeratedType>

<opc:StructuredType Name="TrustListDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="SpecifiedLists" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfTrustedCertificates" TypeName="opc:Int32" />
  <opc:Field Name="TrustedCertificates" TypeName="opc:ByteString" LengthField="NoOfTrustedCertificates" />
  <opc:Field Name="NoOfTrustedCrls" TypeName="opc:Int32" />
  <opc:Field Name="TrustedCrls" TypeName="opc:ByteString" LengthField="NoOfTrustedCrls" />
  <opc:Field Name="NoOfIssuerCertificates" TypeName="opc:Int32" />
  <opc:Field Name="IssuerCertificates" TypeName="opc:ByteString" LengthField="NoOfIssuerCertificates" />
  <opc:Field Name="NoOfIssuerCrls" TypeName="opc:Int32"
/>
  <opc:Field Name="IssuerCrls" TypeName="opc:ByteString" LengthField="NoOfIssuerCrls" />
</opc:StructuredType>

<opc:StructuredType Name="DecimalDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Scale" TypeName="opc:Int16" />
  <opc:Field Name="Value" TypeName="opc:ByteString" />
</opc:StructuredType>
```

```
 <opc:StructuredType Name="DataTypeSchemaHeader" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
  <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
  <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription"
LengthField="NoOfStructureDataTypes" />
  <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes"
/>
  <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="SimpleDataTypes"
 TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
 </opc:StructuredType>

 <opc:StructuredType Name="DataTypeDescription" BaseType="ua:ExtensionObject">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" />
 </opc:StructuredType>

 <opc:StructuredType Name="StructureDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="StructureDefinition" TypeName="tns:StructureDefinition" />
 </opc:StructuredType>

 <opc:StructuredType Name="EnumDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field
 Name="EnumDefinition" TypeName="tns:EnumDefinition" />
  <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
 </opc:StructuredType>

 <opc:StructuredType Name="SimpleTypeDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
  <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
 </opc:StructuredType>

 <opc:StructuredType Name="UABinaryFileDataType" BaseType="tns:DataTypeSchemaHeader">
  <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
  <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
  <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription"
LengthField="NoOfStructureDataTypes" />
  <opc:Field Name="NoOfEnumDataTypes"
```

```
 TypeName="opc:Int32" />
   <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes"
/>
   <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
   <opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription"
LengthField="NoOfSimpleDataTypes" />
   <opc:Field Name="SchemaLocation" TypeName="opc:String" />
   <opc:Field Name="NoOfFileHeader" TypeName="opc:Int32" />
   <opc:Field Name="FileHeader" TypeName="tns:KeyValuePair" LengthField="NoOfFileHeader" />
   <opc:Field Name="Body" TypeName="ua:Variant" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="PubSubState" LengthInBits="32">
   <opc:EnumeratedValue Name="Disabled" Value="0" />
   <opc:EnumeratedValue Name="Paused" Value="1" />
   <opc:EnumeratedValue Name="Operational" Value="2" />
   <opc:EnumeratedValue Name="Error" Value="3" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="DataSetMetaDataType" BaseType="tns:DataTypeSchemaHeader">

   <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
   <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
   <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
   <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription"
LengthField="NoOfStructureDataTypes" />
   <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
   <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes"
/>
   <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
   <opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription"
LengthField="NoOfSimpleDataTypes" />
   <opc:Field Name="Name" TypeName="opc:String" />
   <opc:Field Name="Description" TypeName="ua:LocalizedText" />
   <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
   <opc:Field Name="Fields" TypeName="tns:FieldMetaData" LengthField="NoOfFields" />
   <opc:Field Name="DataSetClassId" TypeName="opc:Guid" />

 <opc:Field Name="ConfigurationVersion" TypeName="tns:ConfigurationVersionDataType" />
 </opc:StructuredType>

 <opc:StructuredType Name="FieldMetaData" BaseType="ua:ExtensionObject">
   <opc:Field Name="Name" TypeName="opc:String" />
   <opc:Field Name="Description" TypeName="ua:LocalizedText" />
   <opc:Field Name="FieldFlags" TypeName="tns:DataSetFieldFlags" />
   <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
   <opc:Field Name="DataType" TypeName="ua:NodeId" />
   <opc:Field Name="ValueRank" TypeName="opc:Int32" />
```

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  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="MaxStringLength" TypeName="opc:UInt32" />
  <opc:Field Name="DataSetFieldId" TypeName="opc:Guid" />
  <opc:Field Name="NoOfProperties" TypeName="opc:Int32" />
  <opc:Field Name="Properties" TypeName="tns:KeyValuePair" LengthField="NoOfProperties" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="DataSetFieldFlags" LengthInBits="16" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="PromotedField" Value="1" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="ConfigurationVersionDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="MajorVersion" TypeName="opc:UInt32" />
  <opc:Field Name="MinorVersion" TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:StructuredType Name="PublishedDataSetDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="NoOfDataSetFolder" TypeName="opc:Int32" />
  <opc:Field Name="DataSetFolder" TypeName="opc:String" LengthField="NoOfDataSetFolder" />
  <opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
  <opc:Field Name="NoOfExtensionFields" TypeName="opc:Int32" />
  <opc:Field Name="ExtensionFields" TypeName="tns:KeyValuePair" LengthField="NoOfExtensionFields" />

 <opc:Field Name="DataSetSource" TypeName="ua:ExtensionObject" />
 </opc:StructuredType>

 <opc:StructuredType Name="PublishedDataSetSourceDataType" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="PublishedVariableDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="PublishedVariable" TypeName="ua:NodeId" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="SamplingIntervalHint" TypeName="opc:Double" />
  <opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
  <opc:Field Name="DeadbandValue" TypeName="opc:Double" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="SubstituteValue" TypeName="ua:Variant" />
  <opc:Field Name="NoOfMetaDataProperties" TypeName="opc:Int32" />
  <opc:Field Name="MetaDataProperties" TypeName="ua:QualifiedName"
LengthField="NoOfMetaDataProperties" />
 </opc:StructuredType>

 <opc:StructuredType Name="PublishedDataItemsDataType" BaseType="tns:PublishedDataSetSourceDataType">
   <opc:Field Name="NoOfPublishedData" TypeName="opc:Int32" />
  <opc:Field Name="PublishedData" TypeName="tns:PublishedVariableDataType"
```

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LengthField="NoOfPublishedData" />
 </opc:StructuredType>

 <opc:StructuredType Name="PublishedEventsDataType" BaseType="tns:PublishedDataSetSourceDataType">
   <opc:Field Name="EventNotifier" TypeName="ua:NodeId" />
   <opc:Field Name="NoOfSelectedFields" TypeName="opc:Int32" />
   <opc:Field Name="SelectedFields" TypeName="tns:SimpleAttributeOperand"
LengthField="NoOfSelectedFields" />
   <opc:Field Name="Filter" TypeName="tns:ContentFilter" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="DataSetFieldContentMask" LengthInBits="32" IsOptionSet="true">
   <opc:EnumeratedValue Name="None" Value="0" />
   <opc:EnumeratedValue Name="StatusCode" Value="1" />
   <opc:EnumeratedValue Name="SourceTimestamp" Value="2" />
   <opc:EnumeratedValue Name="ServerTimestamp" Value="4" />
   <opc:EnumeratedValue Name="SourcePicoSeconds"
 Value="8" />
   <opc:EnumeratedValue Name="ServerPicoSeconds" Value="16" />
   <opc:EnumeratedValue Name="RawData" Value="32" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="DataSetWriterDataType" BaseType="ua:ExtensionObject">
   <opc:Field Name="Name" TypeName="opc:String" />
   <opc:Field Name="Enabled" TypeName="opc:Boolean" />
   <opc:Field Name="DataSetWriterId" TypeName="opc:UInt16" />
   <opc:Field Name="DataSetFieldContentMask" TypeName="tns:DataSetFieldContentMask" />
   <opc:Field Name="KeyFrameCount" TypeName="opc:UInt32" />
   <opc:Field Name="DataSetName" TypeName="opc:String" />
   <opc:Field Name="NoOfDataSetWriterProperties" TypeName="opc:Int32" />
   <opc:Field Name="DataSetWriterProperties" TypeName="tns:KeyValuePair"
LengthField="NoOfDataSetWriterProperties" />
   <opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
   <opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
 </opc:StructuredType>

  <opc:StructuredType Name="DataSetWriterTransportDataType" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="DataSetWriterMessageDataType" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="PubSubGroupDataType" BaseType="ua:ExtensionObject">
   <opc:Field Name="Name" TypeName="opc:String" />
   <opc:Field Name="Enabled" TypeName="opc:Boolean" />
   <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
   <opc:Field Name="SecurityGroupId" TypeName="opc:String" />
   <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
```

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  <opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription"
LengthField="NoOfSecurityKeyServices" />
  <opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" />
  <opc:Field Name="GroupProperties" TypeName="tns:KeyValuePair" LengthField="NoOfGroupProperties" />
 </opc:StructuredType>

 <opc:StructuredType Name="WriterGroupDataType" BaseType="tns:PubSubGroupDataType">
  <opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode"
SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityGroupId" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
  <opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription"
LengthField="NoOfSecurityKeyServices" />
  <opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32"
SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" />
  <opc:Field Name="GroupProperties" TypeName="tns:KeyValuePair" LengthField="NoOfGroupProperties" />
  <opc:Field Name="WriterGroupId" TypeName="opc:UInt16"
 />
  <opc:Field Name="PublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="KeepAliveTime" TypeName="opc:Double" />
  <opc:Field Name="Priority" TypeName="opc:Byte" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
  <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
  <opc:Field Name="HeaderLayoutUri" TypeName="opc:String" />
  <opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="NoOfDataSetWriters" TypeName="opc:Int32" />
  <opc:Field Name="DataSetWriters" TypeName="tns:DataSetWriterDataType"
LengthField="NoOfDataSetWriters" />
 </opc:StructuredType>

 <opc:StructuredType Name="WriterGroupTransportDataType" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="WriterGroupMessageDataType" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="PubSubConnectionDataType"
 BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" />
  <opc:Field Name="PublisherId" TypeName="ua:Variant" />
  <opc:Field Name="TransportProfileUri" TypeName="opc:String" />
  <opc:Field Name="Address" TypeName="ua:ExtensionObject" />
```

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  <opc:Field Name="NoOfConnectionProperties" TypeName="opc:Int32" />
  <opc:Field Name="ConnectionProperties" TypeName="tns:KeyValuePair"
LengthField="NoOfConnectionProperties" />
  <opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="NoOfWriterGroups" TypeName="opc:Int32" />
  <opc:Field Name="WriterGroups" TypeName="tns:WriterGroupDataType" LengthField="NoOfWriterGroups" />
  <opc:Field Name="NoOfReaderGroups" TypeName="opc:Int32" />
  <opc:Field Name="ReaderGroups" TypeName="tns:ReaderGroupDataType" LengthField="NoOfReaderGroups"
/>
 </opc:StructuredType>

 <opc:StructuredType Name="ConnectionTransportDataType"
 BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="NetworkAddressDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NetworkInterface" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:StructuredType Name="NetworkAddressUrlDataType" BaseType="tns:NetworkAddressDataType">
  <opc:Field Name="NetworkInterface" TypeName="opc:String" SourceType="tns:NetworkAddressDataType" />
  <opc:Field Name="Url" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:StructuredType Name="ReaderGroupDataType" BaseType="tns:PubSubGroupDataType">
  <opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode"
SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityGroupId" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
   <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
  <opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription"
LengthField="NoOfSecurityKeyServices" />
  <opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32"
SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" />
  <opc:Field Name="GroupProperties" TypeName="tns:KeyValuePair" LengthField="NoOfGroupProperties" />
  <opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="NoOfDataSetReaders" TypeName="opc:Int32" />
  <opc:Field Name="DataSetReaders" TypeName="tns:DataSetReaderDataType"
LengthField="NoOfDataSetReaders" />
 </opc:StructuredType>

 <opc:StructuredType Name="ReaderGroupTransportDataType" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="ReaderGroupMessageDataType" BaseType="ua:ExtensionObject">
```

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 </opc:StructuredType>

 <opc:StructuredType Name="DataSetReaderDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" />
  <opc:Field Name="PublisherId" TypeName="ua:Variant" />
  <opc:Field Name="WriterGroupId" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetWriterId" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
  <opc:Field Name="DataSetFieldContentMask" TypeName="tns:DataSetFieldContentMask" />
  <opc:Field Name="MessageReceiveTimeout" TypeName="opc:Double" />
  <opc:Field Name="KeyFrameCount" TypeName="opc:UInt32" />
  <opc:Field Name="HeaderLayoutUri" TypeName="opc:String" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityGroupId" TypeName="opc:String" />
  <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
  <opc:Field Name="SecurityKeyServices"
 TypeName="tns:EndpointDescription" LengthField="NoOfSecurityKeyServices" />
  <opc:Field Name="NoOfDataSetReaderProperties" TypeName="opc:Int32" />
  <opc:Field Name="DataSetReaderProperties" TypeName="tns:KeyValuePair"
LengthField="NoOfDataSetReaderProperties" />
  <opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="SubscribedDataSet" TypeName="ua:ExtensionObject" />
 </opc:StructuredType>

 <opc:StructuredType Name="DataSetReaderTransportDataType" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="DataSetReaderMessageDataType" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="SubscribedDataSetDataType" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="TargetVariablesDataType" BaseType="tns:SubscribedDataSetDataType">
  <opc:Field Name="NoOfTargetVariables"
 TypeName="opc:Int32" />
  <opc:Field Name="TargetVariables" TypeName="tns:FieldTargetDataType"
LengthField="NoOfTargetVariables" />
 </opc:StructuredType>

 <opc:StructuredType Name="FieldTargetDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="DataSetFieldId" TypeName="opc:Guid" />
  <opc:Field Name="ReceiverIndexRange" TypeName="opc:String" />
  <opc:Field Name="TargetNodeId" TypeName="ua:NodeId" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="WriteIndexRange" TypeName="opc:String" />
```

```
  <opc:Field Name="OverrideValueHandling" TypeName="tns:OverrideValueHandling" />
  <opc:Field Name="OverrideValue" TypeName="ua:Variant" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="OverrideValueHandling" LengthInBits="32">
  <opc:EnumeratedValue Name="Disabled" Value="0" />
  <opc:EnumeratedValue Name="LastUsableValue" Value="1" />
  <opc:EnumeratedValue Name="OverrideValue" Value="2" />
 </opc:EnumeratedType>

 <opc:StructuredType
 Name="SubscribedDataSetMirrorDataType" BaseType="tns:SubscribedDataSetDataType">
  <opc:Field Name="ParentNodeName" TypeName="opc:String" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
 </opc:StructuredType>

 <opc:StructuredType Name="PubSubConfigurationDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfPublishedDataSets" TypeName="opc:Int32" />
  <opc:Field Name="PublishedDataSets" TypeName="tns:PublishedDataSetDataType"
LengthField="NoOfPublishedDataSets" />
  <opc:Field Name="NoOfConnections" TypeName="opc:Int32" />
  <opc:Field Name="Connections" TypeName="tns:PubSubConnectionDataType"
LengthField="NoOfConnections" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="DataSetOrderingType" LengthInBits="32">
  <opc:EnumeratedValue Name="Undefined" Value="0" />
   <opc:EnumeratedValue Name="AscendingWriterId" Value="1" />
  <opc:EnumeratedValue Name="AscendingWriterIdSingle" Value="2" />
 </opc:EnumeratedType>

 <opc:EnumeratedType Name="UadpNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="PublisherId" Value="1" />
  <opc:EnumeratedValue Name="GroupHeader" Value="2" />
  <opc:EnumeratedValue Name="WriterGroupId" Value="4" />
  <opc:EnumeratedValue Name="GroupVersion" Value="8" />
  <opc:EnumeratedValue Name="NetworkMessageNumber" Value="16" />
  <opc:EnumeratedValue Name="SequenceNumber" Value="32" />
  <opc:EnumeratedValue Name="PayloadHeader" Value="64" />
  <opc:EnumeratedValue Name="Timestamp" Value="128" />
  <opc:EnumeratedValue Name="PicoSeconds" Value="256" />
  <opc:EnumeratedValue Name="DataSetClassId" Value="512" />
  <opc:EnumeratedValue Name="PromotedFields" Value="1024" />
 </opc:EnumeratedType>
```

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<opc:StructuredType
Name="UadpWriterGroupMessageDataType" BaseType="tns:WriterGroupMessageDataType">
  <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
  <opc:Field Name="DataSetOrdering" TypeName="tns:DataSetOrderingType" />
  <opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
  <opc:Field Name="SamplingOffset" TypeName="opc:Double" />
  <opc:Field Name="NoOfPublishingOffset" TypeName="opc:Int32" />
  <opc:Field Name="PublishingOffset" TypeName="opc:Double" LengthField="NoOfPublishingOffset" />
</opc:StructuredType>

<opc:EnumeratedType Name="UadpDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Timestamp" Value="1" />
  <opc:EnumeratedValue Name="PicoSeconds" Value="2" />
  <opc:EnumeratedValue Name="Status" Value="4" />
  <opc:EnumeratedValue Name="MajorVersion" Value="8" />
  <opc:EnumeratedValue Name="MinorVersion" Value="16"
/>
  <opc:EnumeratedValue Name="SequenceNumber" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpDataSetWriterMessageDataType"
BaseType="tns:DataSetWriterMessageDataType">
  <opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" />
  <opc:Field Name="ConfiguredSize" TypeName="opc:UInt16" />
  <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="UadpDataSetReaderMessageDataType"
BaseType="tns:DataSetReaderMessageDataType">
  <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
  <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetClassId" TypeName="opc:Guid" />
  <opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
  <opc:Field Name="DataSetMessageContentMask"
TypeName="tns:UadpDataSetMessageContentMask" />
  <opc:Field Name="PublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="ReceiveOffset" TypeName="opc:Double" />
  <opc:Field Name="ProcessingOffset" TypeName="opc:Double" />
</opc:StructuredType>

<opc:EnumeratedType Name="JsonNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="NetworkMessageHeader" Value="1" />
  <opc:EnumeratedValue Name="DataSetMessageHeader" Value="2" />
```

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  <opc:EnumeratedValue Name="SingleDataSetMessage" Value="4" />
  <opc:EnumeratedValue Name="PublisherId" Value="8" />
  <opc:EnumeratedValue Name="DataSetClassId" Value="16" />
  <opc:EnumeratedValue Name="ReplyTo" Value="32" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="JsonWriterGroupMessageDataType"
BaseType="tns:WriterGroupMessageDataType">
  <opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask"
/>
 </opc:StructuredType>

 <opc:EnumeratedType Name="JsonDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="DataSetWriterId" Value="1" />
  <opc:EnumeratedValue Name="MetaDataVersion" Value="2" />
  <opc:EnumeratedValue Name="SequenceNumber" Value="4" />
  <opc:EnumeratedValue Name="Timestamp" Value="8" />
  <opc:EnumeratedValue Name="Status" Value="16" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="JsonDataSetWriterMessageDataType"
BaseType="tns:DataSetWriterMessageDataType">
  <opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask" />
 </opc:StructuredType>

 <opc:StructuredType Name="JsonDataSetReaderMessageDataType"
BaseType="tns:DataSetReaderMessageDataType">
  <opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask" />
  <opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask"
/>
 </opc:StructuredType>

 <opc:StructuredType Name="DatagramConnectionTransportDataType"
BaseType="tns:ConnectionTransportDataType">
  <opc:Field Name="DiscoveryAddress" TypeName="ua:ExtensionObject" />
 </opc:StructuredType>

 <opc:StructuredType Name="DatagramWriterGroupTransportDataType"
BaseType="tns:WriterGroupTransportDataType">
  <opc:Field Name="MessageRepeatCount" TypeName="opc:Byte" />
  <opc:Field Name="MessageRepeatDelay" TypeName="opc:Double" />
 </opc:StructuredType>

 <opc:StructuredType Name="BrokerConnectionTransportDataType"
BaseType="tns:ConnectionTransportDataType">
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
```

```
 </opc:StructuredType>

 <opc:EnumeratedType Name="BrokerTransportQualityOfService" LengthInBits="32">
   <opc:EnumeratedValue Name="NotSpecified" Value="0" />
   <opc:EnumeratedValue Name="BestEffort" Value="1" />
   <opc:EnumeratedValue
 Name="AtLeastOnce" Value="2" />
   <opc:EnumeratedValue Name="AtMostOnce" Value="3" />
   <opc:EnumeratedValue Name="ExactlyOnce" Value="4" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="BrokerWriterGroupTransportDataType"
BaseType="tns:WriterGroupTransportDataType">
   <opc:Field Name="QueueName" TypeName="opc:String" />
   <opc:Field Name="ResourceUri" TypeName="opc:String" />
   <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
   <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
 </opc:StructuredType>

 <opc:StructuredType Name="BrokerDataSetWriterTransportDataType"
BaseType="tns:DataSetWriterTransportDataType">
   <opc:Field Name="QueueName" TypeName="opc:String" />
   <opc:Field Name="ResourceUri" TypeName="opc:String" />
   <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
   <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />

   <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
   <opc:Field Name="MetaDataUpdateTime" TypeName="opc:Double" />
 </opc:StructuredType>

 <opc:StructuredType Name="BrokerDataSetReaderTransportDataType"
BaseType="tns:DataSetReaderTransportDataType">
   <opc:Field Name="QueueName" TypeName="opc:String" />
   <opc:Field Name="ResourceUri" TypeName="opc:String" />
   <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
   <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
   <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="DiagnosticsLevel" LengthInBits="32">
   <opc:EnumeratedValue Name="Basic" Value="0" />
   <opc:EnumeratedValue Name="Advanced" Value="1" />
   <opc:EnumeratedValue Name="Info" Value="2" />
   <opc:EnumeratedValue Name="Log" Value="3" />
   <opc:EnumeratedValue Name="Debug" Value="4" />
 </opc:EnumeratedType>

 <opc:EnumeratedType
```

```
Name="PubSubDiagnosticsCounterClassification" LengthInBits="32">
  <opc:EnumeratedValue Name="Information" Value="0" />
  <opc:EnumeratedValue Name="Error" Value="1" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="IdType" LengthInBits="32">
  <opc:Documentation>The type of identifier used in a node id.</opc:Documentation>
  <opc:EnumeratedValue Name="Numeric" Value="0" />
  <opc:EnumeratedValue Name="String" Value="1" />
  <opc:EnumeratedValue Name="Guid" Value="2" />
  <opc:EnumeratedValue Name="Opaque" Value="3" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="NodeClass" LengthInBits="32">
  <opc:Documentation>A mask specifying the class of the node.</opc:Documentation>
  <opc:EnumeratedValue Name="Unspecified" Value="0" />
  <opc:EnumeratedValue Name="Object" Value="1" />
  <opc:EnumeratedValue Name="Variable" Value="2" />
  <opc:EnumeratedValue Name="Method" Value="4" />
  <opc:EnumeratedValue Name="ObjectType" Value="8" />
  <opc:EnumeratedValue
Name="VariableType" Value="16" />
  <opc:EnumeratedValue Name="ReferenceType" Value="32" />
  <opc:EnumeratedValue Name="DataType" Value="64" />
  <opc:EnumeratedValue Name="View" Value="128" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PermissionType" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Browse" Value="1" />
  <opc:EnumeratedValue Name="ReadRolePermissions" Value="2" />
  <opc:EnumeratedValue Name="WriteAttribute" Value="4" />
  <opc:EnumeratedValue Name="WriteRolePermissions" Value="8" />
  <opc:EnumeratedValue Name="WriteHistorizing" Value="16" />
  <opc:EnumeratedValue Name="Read" Value="32" />
  <opc:EnumeratedValue Name="Write" Value="64" />
  <opc:EnumeratedValue Name="ReadHistory" Value="128" />
  <opc:EnumeratedValue Name="InsertHistory" Value="256" />
  <opc:EnumeratedValue Name="ModifyHistory" Value="512" />
  <opc:EnumeratedValue Name="DeleteHistory"
Value="1024" />
  <opc:EnumeratedValue Name="ReceiveEvents" Value="2048" />
  <opc:EnumeratedValue Name="Call" Value="4096" />
  <opc:EnumeratedValue Name="AddReference" Value="8192" />
  <opc:EnumeratedValue Name="RemoveReference" Value="16384" />
  <opc:EnumeratedValue Name="DeleteNode" Value="32768" />
  <opc:EnumeratedValue Name="AddNode" Value="65536" />
</opc:EnumeratedType>
```

```
<opc:EnumeratedType Name="AccessLevelType" LengthInBits="8" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="CurrentRead" Value="1" />
  <opc:EnumeratedValue Name="CurrentWrite" Value="2" />
  <opc:EnumeratedValue Name="HistoryRead" Value="4" />
  <opc:EnumeratedValue Name="HistoryWrite" Value="8" />
  <opc:EnumeratedValue Name="SemanticChange" Value="16" />
  <opc:EnumeratedValue Name="StatusWrite" Value="32" />
  <opc:EnumeratedValue Name="TimestampWrite" Value="64" />
</opc:EnumeratedType>

<opc:EnumeratedType
Name="AccessLevelExType" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="CurrentRead" Value="1" />
  <opc:EnumeratedValue Name="CurrentWrite" Value="2" />
  <opc:EnumeratedValue Name="HistoryRead" Value="4" />
  <opc:EnumeratedValue Name="HistoryWrite" Value="8" />
  <opc:EnumeratedValue Name="SemanticChange" Value="16" />
  <opc:EnumeratedValue Name="StatusWrite" Value="32" />
  <opc:EnumeratedValue Name="TimestampWrite" Value="64" />
  <opc:EnumeratedValue Name="NonatomicRead" Value="256" />
  <opc:EnumeratedValue Name="NonatomicWrite" Value="512" />
  <opc:EnumeratedValue Name="WriteFullArrayOnly" Value="1024" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="EventNotifierType" LengthInBits="8" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="SubscribeToEvents" Value="1" />
  <opc:EnumeratedValue Name="HistoryRead" Value="4" />
  <opc:EnumeratedValue
Name="HistoryWrite" Value="8" />
</opc:EnumeratedType>

<opc:StructuredType Name="RolePermissionType" BaseType="ua:ExtensionObject">
  <opc:Field Name="RoleId" TypeName="ua:NodeId" />
  <opc:Field Name="Permissions" TypeName="tns:PermissionType" />
</opc:StructuredType>

<opc:EnumeratedType Name="StructureType" LengthInBits="32">
  <opc:EnumeratedValue Name="Structure" Value="0" />
  <opc:EnumeratedValue Name="StructureWithOptionalFields" Value="1" />
  <opc:EnumeratedValue Name="Union" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="StructureField" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
```

```
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions"
/>
  <opc:Field Name="MaxStringLength" TypeName="opc:UInt32" />
  <opc:Field Name="IsOptional" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="StructureDefinition" BaseType="tns:DataTypeDefinition">
  <opc:Field Name="DefaultEncodingId" TypeName="ua:NodeId" />
  <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
  <opc:Field Name="StructureType" TypeName="tns:StructureType" />
  <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
  <opc:Field Name="Fields" TypeName="tns:StructureField" LengthField="NoOfFields" />
 </opc:StructuredType>

 <opc:StructuredType Name="EnumDefinition" BaseType="tns:DataTypeDefinition">
  <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
  <opc:Field Name="Fields" TypeName="tns:EnumField" LengthField="NoOfFields" />
 </opc:StructuredType>

 <opc:StructuredType Name="Node" BaseType="ua:ExtensionObject">
  <opc:Documentation>Specifies the attributes which belong to all nodes.</opc:Documentation>
   <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode"
 LengthField="NoOfReferences" />
 </opc:StructuredType>

 <opc:StructuredType Name="InstanceNode" BaseType="tns:Node">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
```

```
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
 LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
 </opc:StructuredType>

 <opc:StructuredType Name="TypeNode" BaseType="tns:Node">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions"
 TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
 </opc:StructuredType>

 <opc:StructuredType Name="ObjectNode" BaseType="tns:InstanceNode">
  <opc:Documentation>Specifies the attributes which belong to object nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node"
/>
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
```

```
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="EventNotifier" TypeName="opc:Byte"
/>
 </opc:StructuredType>

 <opc:StructuredType Name="ObjectTypeNode" BaseType="tns:TypeNode">
  <opc:Documentation>Specifies the attributes which belong to object type nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions"
 TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="VariableNode" BaseType="tns:InstanceNode">
  <opc:Documentation>Specifies the attributes which belong to variable nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description"
 TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
```

```
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field
 Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="AccessLevel" TypeName="opc:Byte" />
  <opc:Field Name="UserAccessLevel" TypeName="opc:Byte" />
  <opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />
  <opc:Field Name="Historizing" TypeName="opc:Boolean" />
  <opc:Field Name="AccessLevelEx" TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:StructuredType Name="VariableTypeNode" BaseType="tns:TypeNode">
  <opc:Documentation>Specifies the attributes which belong to variable type nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />

  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32"
 />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="ReferenceTypeNode" BaseType="tns:TypeNode">
  <opc:Documentation>Specifies the attributes which belong to reference type nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
```

```
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node"
 />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
  <opc:Field Name="Symmetric" TypeName="opc:Boolean" />
  <opc:Field Name="InverseName" TypeName="ua:LocalizedText" />
 </opc:StructuredType>

 <opc:StructuredType Name="MethodNode" BaseType="tns:InstanceNode">
  <opc:Documentation>Specifies the attributes which belong to method nodes.</opc:Documentation>

  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16"
 SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="Executable" TypeName="opc:Boolean" />
  <opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="ViewNode" BaseType="tns:InstanceNode">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
```

```
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions"
 TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="ContainsNoLoops" TypeName="opc:Boolean" />
  <opc:Field Name="EventNotifier" TypeName="opc:Byte" />
 </opc:StructuredType>

 <opc:StructuredType Name="DataTypeNode" BaseType="tns:TypeNode">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName"
 SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="IsAbstract"
 TypeName="opc:Boolean" />
  <opc:Field Name="DataTypeDefinition" TypeName="ua:ExtensionObject" />
 </opc:StructuredType>

 <opc:StructuredType Name="ReferenceNode" BaseType="ua:ExtensionObject">
  <opc:Documentation>Specifies a reference which belongs to a node.</opc:Documentation>
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsInverse" TypeName="opc:Boolean" />
  <opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
 </opc:StructuredType>
```

```
 <opc:StructuredType Name="Argument" BaseType="ua:ExtensionObject">
  <opc:Documentation>An argument for a method.</opc:Documentation>
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="Description"
 TypeName="ua:LocalizedText" />
 </opc:StructuredType>

 <opc:StructuredType Name="EnumValueType" BaseType="ua:ExtensionObject">
  <opc:Documentation>A mapping between a value of an enumerated type and a name and
description.</opc:Documentation>
  <opc:Field Name="Value" TypeName="opc:Int64" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
 </opc:StructuredType>

 <opc:StructuredType Name="EnumField" BaseType="tns:EnumValueType">
  <opc:Field Name="Value" TypeName="opc:Int64" SourceType="tns:EnumValueType" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
  <opc:Field Name="Name" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:StructuredType Name="OptionSet" BaseType="ua:ExtensionObject">
  <opc:Documentation>This abstract Structured
 DataType is the base DataType for all DataTypes representing a bit mask.</opc:Documentation>
  <opc:Field Name="Value" TypeName="opc:ByteString" />
  <opc:Field Name="ValidBits" TypeName="opc:ByteString" />
 </opc:StructuredType>

 <opc:StructuredType Name="Union" BaseType="ua:ExtensionObject">
  <opc:Documentation>This abstract DataType is the base DataType for all union
DataTypes.</opc:Documentation>
 </opc:StructuredType>

 <opc:OpaqueType Name="NormalizedString">
  <opc:Documentation>A string normalized based on the rules in the unicode specification.</opc:Documentation>
 </opc:OpaqueType>

 <opc:OpaqueType Name="DecimalString">
  <opc:Documentation>An arbitraty numeric value.</opc:Documentation>
 </opc:OpaqueType>

 <opc:OpaqueType Name="DurationString">
  <opc:Documentation>A period of time formatted as defined in ISO 8601-2000.</opc:Documentation>
```

```
</opc:OpaqueType>

<opc:OpaqueType Name="TimeString">
  <opc:Documentation>A time formatted as defined in
ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DateString">
  <opc:Documentation>A date formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Duration">
  <opc:Documentation>A period of time measured in milliseconds.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="UtcTime">
  <opc:Documentation>A date/time value specified in Universal Coordinated Time (UTC).</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="LocaleId">
  <opc:Documentation>An identifier for a user locale.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="TimeZoneDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Offset" TypeName="opc:Int16" />
  <opc:Field Name="DaylightSavingInOffset" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:OpaqueType Name="Index">
  <opc:Documentation>This primitive data type is a UInt32 that identifies an element of an
array.</opc:Documentation>
 </opc:OpaqueType>

<opc:OpaqueType Name="IntegerId">
  <opc:Documentation>A numeric identifier for an object.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="ApplicationType" LengthInBits="32">
  <opc:Documentation>The types of applications.</opc:Documentation>
  <opc:EnumeratedValue Name="Server" Value="0" />
  <opc:EnumeratedValue Name="Client" Value="1" />
  <opc:EnumeratedValue Name="ClientAndServer" Value="2" />
  <opc:EnumeratedValue Name="DiscoveryServer" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="ApplicationDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>Describes an application and how to find it.</opc:Documentation>
  <opc:Field Name="ApplicationUri" TypeName="opc:String" />
```

```
  <opc:Field Name="ProductUri" TypeName="opc:String" />
  <opc:Field Name="ApplicationName" TypeName="ua:LocalizedText" />
  <opc:Field Name="ApplicationType" TypeName="tns:ApplicationType" />
  <opc:Field
 Name="GatewayServerUri" TypeName="opc:String" />
  <opc:Field Name="DiscoveryProfileUri" TypeName="opc:String" />
  <opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
  <opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
 </opc:StructuredType>

 <opc:StructuredType Name="RequestHeader" BaseType="ua:ExtensionObject">
  <opc:Documentation>The header passed with every server request.</opc:Documentation>
  <opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
  <opc:Field Name="Timestamp" TypeName="opc:DateTime" />
  <opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
  <opc:Field Name="ReturnDiagnostics" TypeName="opc:UInt32" />
  <opc:Field Name="AuditEntryId" TypeName="opc:String" />
  <opc:Field Name="TimeoutHint" TypeName="opc:UInt32" />
  <opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
 </opc:StructuredType>

 <opc:StructuredType Name="ResponseHeader" BaseType="ua:ExtensionObject">
   <opc:Documentation>The header passed with every server response.</opc:Documentation>
  <opc:Field Name="Timestamp" TypeName="opc:DateTime" />
  <opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
  <opc:Field Name="ServiceResult" TypeName="ua:StatusCode" />
  <opc:Field Name="ServiceDiagnostics" TypeName="ua:DiagnosticInfo" />
  <opc:Field Name="NoOfStringTable" TypeName="opc:Int32" />
  <opc:Field Name="StringTable" TypeName="opc:String" LengthField="NoOfStringTable" />
  <opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
 </opc:StructuredType>

 <opc:OpaqueType Name="VersionTime">
 </opc:OpaqueType>

 <opc:StructuredType Name="ServiceFault" BaseType="ua:ExtensionObject">
  <opc:Documentation>The response returned by all services when there is a service level
error.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
 </opc:StructuredType>

 <opc:StructuredType Name="SessionlessInvokeRequestType"
 BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfUrisVersion" TypeName="opc:Int32" />
  <opc:Field Name="UrisVersion" TypeName="opc:UInt32" LengthField="NoOfUrisVersion" />
  <opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
  <opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
  <opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
```

```
  <opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
  <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
  <opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeResponseType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
  <opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
  <opc:Field Name="NoOfServerUris"
TypeName="opc:Int32" />
  <opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
  <opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
  <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
  <opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
  <opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
  <opc:Field
Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfServers" TypeName="opc:Int32" />
  <opc:Field Name="Servers" TypeName="tns:ApplicationDescription" LengthField="NoOfServers" />
</opc:StructuredType>

<opc:StructuredType Name="ServerOnNetwork" BaseType="ua:ExtensionObject">
  <opc:Field Name="RecordId" TypeName="opc:UInt32" />
  <opc:Field Name="ServerName" TypeName="opc:String" />
  <opc:Field Name="DiscoveryUrl" TypeName="opc:String" />
  <opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
  <opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="StartingRecordId" TypeName="opc:UInt32" />
  <opc:Field Name="MaxRecordsToReturn" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfServerCapabilityFilter"
TypeName="opc:Int32" />
  <opc:Field Name="ServerCapabilityFilter" TypeName="opc:String" LengthField="NoOfServerCapabilityFilter"
```

```
/>
 </opc:StructuredType>

 <opc:StructuredType Name="FindServersOnNetworkResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="LastCounterResetTime" TypeName="opc:DateTime" />
  <opc:Field Name="NoOfServers" TypeName="opc:Int32" />
  <opc:Field Name="Servers" TypeName="tns:ServerOnNetwork" LengthField="NoOfServers" />
 </opc:StructuredType>

 <opc:OpaqueType Name="ApplicationInstanceCertificate">
  <opc:Documentation>A certificate for an instance of an application.</opc:Documentation>
 </opc:OpaqueType>

 <opc:EnumeratedType Name="MessageSecurityMode" LengthInBits="32">
  <opc:Documentation>The type of security to use on a message.</opc:Documentation>
  <opc:EnumeratedValue Name="Invalid" Value="0" />
  <opc:EnumeratedValue Name="None" Value="1"
 />
  <opc:EnumeratedValue Name="Sign" Value="2" />
  <opc:EnumeratedValue Name="SignAndEncrypt" Value="3" />
 </opc:EnumeratedType>

 <opc:EnumeratedType Name="UserTokenType" LengthInBits="32">
  <opc:Documentation>The possible user token types.</opc:Documentation>
  <opc:EnumeratedValue Name="Anonymous" Value="0" />
  <opc:EnumeratedValue Name="UserName" Value="1" />
  <opc:EnumeratedValue Name="Certificate" Value="2" />
  <opc:EnumeratedValue Name="IssuedToken" Value="3" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="UserTokenPolicy" BaseType="ua:ExtensionObject">
  <opc:Documentation>Describes a user token that can be used with a server.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" />
  <opc:Field Name="TokenType" TypeName="tns:UserTokenType" />
  <opc:Field Name="IssuedTokenType" TypeName="opc:String" />
  <opc:Field Name="IssuerEndpointUrl" TypeName="opc:String" />
  <opc:Field Name="SecurityPolicyUri" TypeName="opc:String"
 />
 </opc:StructuredType>

 <opc:StructuredType Name="EndpointDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>The description of a endpoint that can be used to access a server.</opc:Documentation>
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="Server" TypeName="tns:ApplicationDescription" />
  <opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
```

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  <opc:Field Name="NoOfUserIdentityTokens" TypeName="opc:Int32" />
  <opc:Field Name="UserIdentityTokens" TypeName="tns:UserTokenPolicy"
LengthField="NoOfUserIdentityTokens" />
  <opc:Field Name="TransportProfileUri" TypeName="opc:String" />
  <opc:Field Name="SecurityLevel" TypeName="opc:Byte" />
 </opc:StructuredType>

 <opc:StructuredType Name="GetEndpointsRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Gets
 the endpoints used by the server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
  <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
  <opc:Field Name="NoOfProfileUris" TypeName="opc:Int32" />
  <opc:Field Name="ProfileUris" TypeName="opc:String" LengthField="NoOfProfileUris" />
 </opc:StructuredType>

 <opc:StructuredType Name="GetEndpointsResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfEndpoints" TypeName="opc:Int32" />
  <opc:Field Name="Endpoints" TypeName="tns:EndpointDescription" LengthField="NoOfEndpoints" />
 </opc:StructuredType>

 <opc:StructuredType Name="RegisteredServer" BaseType="ua:ExtensionObject">

  <opc:Documentation>The information required to register a server with a discovery server.</opc:Documentation>
  <opc:Field Name="ServerUri" TypeName="opc:String" />
  <opc:Field Name="ProductUri" TypeName="opc:String" />
  <opc:Field Name="NoOfServerNames" TypeName="opc:Int32" />
  <opc:Field Name="ServerNames" TypeName="ua:LocalizedText" LengthField="NoOfServerNames" />
  <opc:Field Name="ServerType" TypeName="tns:ApplicationType" />
  <opc:Field Name="GatewayServerUri" TypeName="opc:String" />
  <opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
  <opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
  <opc:Field Name="SemaphoreFilePath" TypeName="opc:String" />
  <opc:Field Name="IsOnline" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="RegisterServerRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Registers a server with the discovery server.</opc:Documentation>
  <opc:Field
 Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="Server" TypeName="tns:RegisteredServer" />
 </opc:StructuredType>

 <opc:StructuredType Name="RegisterServerResponse" BaseType="ua:ExtensionObject">
```

```
  <opc:Documentation>Registers a server with the discovery server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
 </opc:StructuredType>

 <opc:StructuredType Name="DiscoveryConfiguration" BaseType="ua:ExtensionObject">
  <opc:Documentation>A base type for discovery configuration information.</opc:Documentation>
 </opc:StructuredType>

 <opc:StructuredType Name="MdnsDiscoveryConfiguration" BaseType="tns:DiscoveryConfiguration">
  <opc:Documentation>The discovery information needed for mDNS registration.</opc:Documentation>
  <opc:Field Name="MdnsServerName" TypeName="opc:String" />
  <opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
  <opc:Field Name="ServerCapabilities" TypeName="opc:String"
 LengthField="NoOfServerCapabilities" />
 </opc:StructuredType>

 <opc:StructuredType Name="RegisterServer2Request" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="Server" TypeName="tns:RegisteredServer" />
  <opc:Field Name="NoOfDiscoveryConfiguration" TypeName="opc:Int32" />
  <opc:Field Name="DiscoveryConfiguration" TypeName="ua:ExtensionObject"
LengthField="NoOfDiscoveryConfiguration" />
 </opc:StructuredType>

 <opc:StructuredType Name="RegisterServer2Response" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfConfigurationResults" TypeName="opc:Int32" />
  <opc:Field Name="ConfigurationResults" TypeName="ua:StatusCode"
LengthField="NoOfConfigurationResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos"
 />
 </opc:StructuredType>

 <opc:EnumeratedType Name="SecurityTokenRequestType" LengthInBits="32">
  <opc:Documentation>Indicates whether a token if being created or renewed.</opc:Documentation>
  <opc:EnumeratedValue Name="Issue" Value="0" />
  <opc:EnumeratedValue Name="Renew" Value="1" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="ChannelSecurityToken" BaseType="ua:ExtensionObject">
  <opc:Documentation>The token that identifies a set of keys for an active secure channel.</opc:Documentation>
  <opc:Field Name="ChannelId" TypeName="opc:UInt32" />
  <opc:Field Name="TokenId" TypeName="opc:UInt32" />
  <opc:Field Name="CreatedAt" TypeName="opc:DateTime" />
  <opc:Field Name="RevisedLifetime" TypeName="opc:UInt32" />
 </opc:StructuredType>
```

```
<opc:StructuredType Name="OpenSecureChannelRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Creates a secure channel with a server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader"
/>
  <opc:Field Name="ClientProtocolVersion" TypeName="opc:UInt32" />
  <opc:Field Name="RequestType" TypeName="tns:SecurityTokenRequestType" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
  <opc:Field Name="RequestedLifetime" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="OpenSecureChannelResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Creates a secure channel with a server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="ServerProtocolVersion" TypeName="opc:UInt32" />
  <opc:Field Name="SecurityToken" TypeName="tns:ChannelSecurityToken" />
  <opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSecureChannelRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Closes a secure channel.</opc:Documentation>
   <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSecureChannelResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Closes a secure channel.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SignedSoftwareCertificate" BaseType="ua:ExtensionObject">
  <opc:Documentation>A software certificate with a digital signature.</opc:Documentation>
  <opc:Field Name="CertificateData" TypeName="opc:ByteString" />
  <opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:OpaqueType Name="SessionAuthenticationToken">
  <opc:Documentation>A unique identifier for a session used to authenticate requests.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="SignatureData" BaseType="ua:ExtensionObject">
  <opc:Documentation>A digital signature.</opc:Documentation>
   <opc:Field Name="Algorithm" TypeName="opc:String" />
  <opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSessionRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Creates a new session with the server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
```

```
  <opc:Field Name="ClientDescription" TypeName="tns:ApplicationDescription" />
  <opc:Field Name="ServerUri" TypeName="opc:String" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="SessionName" TypeName="opc:String" />
  <opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
  <opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
  <opc:Field Name="RequestedSessionTimeout" TypeName="opc:Double" />
  <opc:Field Name="MaxResponseMessageSize" TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:StructuredType Name="CreateSessionResponse" BaseType="ua:ExtensionObject">
   <opc:Documentation>Creates a new session with the server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SessionId" TypeName="ua:NodeId" />
  <opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
  <opc:Field Name="RevisedSessionTimeout" TypeName="opc:Double" />
  <opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
  <opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
  <opc:Field Name="NoOfServerEndpoints" TypeName="opc:Int32" />
  <opc:Field Name="ServerEndpoints" TypeName="tns:EndpointDescription"
LengthField="NoOfServerEndpoints" />
  <opc:Field Name="NoOfServerSoftwareCertificates" TypeName="opc:Int32" />
  <opc:Field Name="ServerSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate"
LengthField="NoOfServerSoftwareCertificates" />
  <opc:Field Name="ServerSignature" TypeName="tns:SignatureData" />
  <opc:Field Name="MaxRequestMessageSize"
 TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:StructuredType Name="UserIdentityToken" BaseType="ua:ExtensionObject">
  <opc:Documentation>A base type for a user identity token.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:StructuredType Name="AnonymousIdentityToken" BaseType="tns:UserIdentityToken">
  <opc:Documentation>A token representing an anonymous user.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
 </opc:StructuredType>

 <opc:StructuredType Name="UserNameIdentityToken" BaseType="tns:UserIdentityToken">
  <opc:Documentation>A token representing a user identified by a user name and password.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
  <opc:Field Name="UserName" TypeName="opc:String" />
  <opc:Field Name="Password" TypeName="opc:ByteString" />
  <opc:Field Name="EncryptionAlgorithm"
 TypeName="opc:String" />
 </opc:StructuredType>
```

```
 <opc:StructuredType Name="X509IdentityToken" BaseType="tns:UserIdentityToken">
  <opc:Documentation>A token representing a user identified by an X509 certificate.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
  <opc:Field Name="CertificateData" TypeName="opc:ByteString" />
 </opc:StructuredType>

 <opc:StructuredType Name="IssuedIdentityToken" BaseType="tns:UserIdentityToken">
  <opc:Documentation>A token representing a user identified by a WS-Security XML token.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
  <opc:Field Name="TokenData" TypeName="opc:ByteString" />
  <opc:Field Name="EncryptionAlgorithm" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:OpaqueType Name="RsaEncryptedSecret">
 </opc:OpaqueType>

 <opc:OpaqueType Name="EccEncryptedSecret">
 </opc:OpaqueType>

  <opc:StructuredType Name="ActivateSessionRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Activates a session with the server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="ClientSignature" TypeName="tns:SignatureData" />
  <opc:Field Name="NoOfClientSoftwareCertificates" TypeName="opc:Int32" />
  <opc:Field Name="ClientSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate"
LengthField="NoOfClientSoftwareCertificates" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
  <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
  <opc:Field Name="UserIdentityToken" TypeName="ua:ExtensionObject" />
  <opc:Field Name="UserTokenSignature" TypeName="tns:SignatureData" />
 </opc:StructuredType>

 <opc:StructuredType Name="ActivateSessionResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Activates a session with the server.</opc:Documentation>
   <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="CloseSessionRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Closes a session with the server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="DeleteSubscriptions" TypeName="opc:Boolean" />
 </opc:StructuredType>
```

```
<opc:StructuredType Name="CloseSessionResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Closes a session with the server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader"
/>
</opc:StructuredType>

<opc:StructuredType Name="CancelRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Cancels an outstanding request.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="CancelResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Cancels an outstanding request.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="CancelCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="NodeAttributesMask" LengthInBits="32">
  <opc:Documentation>The bits used to specify default attributes for a new node.</opc:Documentation>
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="AccessLevel" Value="1" />
  <opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
  <opc:EnumeratedValue
Name="BrowseName" Value="4" />
  <opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
  <opc:EnumeratedValue Name="DataType" Value="16" />
  <opc:EnumeratedValue Name="Description" Value="32" />
  <opc:EnumeratedValue Name="DisplayName" Value="64" />
  <opc:EnumeratedValue Name="EventNotifier" Value="128" />
  <opc:EnumeratedValue Name="Executable" Value="256" />
  <opc:EnumeratedValue Name="Historizing" Value="512" />
  <opc:EnumeratedValue Name="InverseName" Value="1024" />
  <opc:EnumeratedValue Name="IsAbstract" Value="2048" />
  <opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
  <opc:EnumeratedValue Name="NodeClass" Value="8192" />
  <opc:EnumeratedValue Name="NodeId" Value="16384" />
  <opc:EnumeratedValue Name="Symmetric" Value="32768" />
  <opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
  <opc:EnumeratedValue Name="UserExecutable" Value="131072" />
  <opc:EnumeratedValue Name="UserWriteMask" Value="262144"
/>
  <opc:EnumeratedValue Name="ValueRank" Value="524288" />
  <opc:EnumeratedValue Name="WriteMask" Value="1048576" />
  <opc:EnumeratedValue Name="Value" Value="2097152" />
  <opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
  <opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
  <opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
```

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  <opc:EnumeratedValue Name="All" Value="33554431" />
  <opc:EnumeratedValue Name="BaseNode" Value="26501220" />
  <opc:EnumeratedValue Name="Object" Value="26501348" />
  <opc:EnumeratedValue Name="ObjectType" Value="26503268" />
  <opc:EnumeratedValue Name="Variable" Value="26571383" />
  <opc:EnumeratedValue Name="VariableType" Value="28600438" />
  <opc:EnumeratedValue Name="Method" Value="26632548" />
  <opc:EnumeratedValue Name="ReferenceType" Value="26537060" />
  <opc:EnumeratedValue Name="View" Value="26501356" />
</opc:EnumeratedType>

<opc:StructuredType Name="NodeAttributes"
BaseType="ua:ExtensionObject">
  <opc:Documentation>The base attributes for all nodes.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for an object node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"
/>
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="VariableAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for a variable node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field Name="NoOfArrayDimensions"
TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="AccessLevel" TypeName="opc:Byte" />
  <opc:Field Name="UserAccessLevel" TypeName="opc:Byte" />
  <opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />
```

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  <opc:Field Name="Historizing" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MethodAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for a method node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32"
SourceType="tns:NodeAttributes" />
  <opc:Field Name="Executable" TypeName="opc:Boolean" />
  <opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectTypeAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for an object type node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="VariableTypeAttributes" BaseType="tns:NodeAttributes">

  <opc:Documentation>The attributes for a variable type node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ReferenceTypeAttributes"
BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for a reference type node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
```

```
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
  <opc:Field Name="Symmetric" TypeName="opc:Boolean" />
  <opc:Field Name="InverseName" TypeName="ua:LocalizedText" />
 </opc:StructuredType>

 <opc:StructuredType Name="DataTypeAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for a data type node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes"
TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="ViewAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for a view node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask"
TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="ContainsNoLoops" TypeName="opc:Boolean" />
  <opc:Field Name="EventNotifier" TypeName="opc:Byte" />
 </opc:StructuredType>

 <opc:StructuredType Name="GenericAttributeValue" BaseType="ua:ExtensionObject">
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
 </opc:StructuredType>

 <opc:StructuredType Name="GenericAttributes" BaseType="tns:NodeAttributes">
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field
 Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="NoOfAttributeValues" TypeName="opc:Int32" />
  <opc:Field Name="AttributeValues" TypeName="tns:GenericAttributeValue"
LengthField="NoOfAttributeValues" />
 </opc:StructuredType>

 <opc:StructuredType Name="AddNodesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to add a node to the server address space.</opc:Documentation>
```

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  <opc:Field Name="ParentNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="RequestedNewNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
  <opc:Field Name="NodeAttributes" TypeName="ua:ExtensionObject" />
  <opc:Field Name="TypeDefinition" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesResult" BaseType="ua:ExtensionObject">
   <opc:Documentation>A result of an add node operation.</opc:Documentation>
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="AddedNodeId" TypeName="ua:NodeId" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more nodes to the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToAdd" TypeName="opc:Int32" />
  <opc:Field Name="NodesToAdd" TypeName="tns:AddNodesItem" LengthField="NoOfNodesToAdd" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more nodes to the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:AddNodesResult"
LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to add a reference to the server address space.</opc:Documentation>
  <opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="TargetServerUri" TypeName="opc:String" />
  <opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="TargetNodeClass" TypeName="tns:NodeClass" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
   <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfReferencesToAdd" TypeName="opc:Int32" />
  <opc:Field Name="ReferencesToAdd" TypeName="tns:AddReferencesItem"
LengthField="NoOfReferencesToAdd" />
```

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</opc:StructuredType>

<opc:StructuredType Name="AddReferencesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to delete a node to the server address
space.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="DeleteTargetReferences" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToDelete" TypeName="opc:Int32" />
  <opc:Field Name="NodesToDelete" TypeName="tns:DeleteNodesItem" LengthField="NoOfNodesToDelete" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults"
/>
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to delete a node from the server address space.</opc:Documentation>
  <opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="DeleteBidirectional" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfReferencesToDelete"
```

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 TypeName="opc:Int32" />
   <opc:Field Name="ReferencesToDelete" TypeName="tns:DeleteReferencesItem"
LengthField="NoOfReferencesToDelete" />
 </opc:StructuredType>

 <opc:StructuredType Name="DeleteReferencesResponse" BaseType="ua:ExtensionObject">
   <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
   <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
   <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
   <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
   <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
   <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="AttributeWriteMask" LengthInBits="32" IsOptionSet="true">
   <opc:Documentation>Define bits used to indicate which attributes are writable.</opc:Documentation>
   <opc:EnumeratedValue
 Name="None" Value="0" />
   <opc:EnumeratedValue Name="AccessLevel" Value="1" />
   <opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
   <opc:EnumeratedValue Name="BrowseName" Value="4" />
   <opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
   <opc:EnumeratedValue Name="DataType" Value="16" />
   <opc:EnumeratedValue Name="Description" Value="32" />
   <opc:EnumeratedValue Name="DisplayName" Value="64" />
   <opc:EnumeratedValue Name="EventNotifier" Value="128" />
   <opc:EnumeratedValue Name="Executable" Value="256" />
   <opc:EnumeratedValue Name="Historizing" Value="512" />
   <opc:EnumeratedValue Name="InverseName" Value="1024" />
   <opc:EnumeratedValue Name="IsAbstract" Value="2048" />
   <opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
   <opc:EnumeratedValue Name="NodeClass" Value="8192" />
   <opc:EnumeratedValue Name="NodeId" Value="16384" />
   <opc:EnumeratedValue Name="Symmetric" Value="32768" />
   <opc:EnumeratedValue
 Name="UserAccessLevel" Value="65536" />
   <opc:EnumeratedValue Name="UserExecutable" Value="131072" />
   <opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
   <opc:EnumeratedValue Name="ValueRank" Value="524288" />
   <opc:EnumeratedValue Name="WriteMask" Value="1048576" />
   <opc:EnumeratedValue Name="ValueForVariableType" Value="2097152" />
   <opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
   <opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
   <opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
   <opc:EnumeratedValue Name="AccessLevelEx" Value="33554432" />
 </opc:EnumeratedType>

 <opc:EnumeratedType Name="BrowseDirection" LengthInBits="32">
```

```
  <opc:Documentation>The directions of the references to return.</opc:Documentation>
  <opc:EnumeratedValue Name="Forward" Value="0" />
  <opc:EnumeratedValue Name="Inverse" Value="1" />
  <opc:EnumeratedValue Name="Both" Value="2" />
  <opc:EnumeratedValue Name="Invalid"
 Value="3" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="ViewDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>The view to browse.</opc:Documentation>
  <opc:Field Name="ViewId" TypeName="ua:NodeId" />
  <opc:Field Name="Timestamp" TypeName="opc:DateTime" />
  <opc:Field Name="ViewVersion" TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:StructuredType Name="BrowseDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to browse the the references from a node.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="BrowseDirection" TypeName="tns:BrowseDirection" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
  <opc:Field Name="NodeClassMask" TypeName="opc:UInt32" />
  <opc:Field Name="ResultMask" TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="BrowseResultMask" LengthInBits="32">
   <opc:Documentation>A bit mask which specifies what should be returned in a browse
response.</opc:Documentation>
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="ReferenceTypeId" Value="1" />
  <opc:EnumeratedValue Name="IsForward" Value="2" />
  <opc:EnumeratedValue Name="NodeClass" Value="4" />
  <opc:EnumeratedValue Name="BrowseName" Value="8" />
  <opc:EnumeratedValue Name="DisplayName" Value="16" />
  <opc:EnumeratedValue Name="TypeDefinition" Value="32" />
  <opc:EnumeratedValue Name="All" Value="63" />
  <opc:EnumeratedValue Name="ReferenceTypeInfo" Value="3" />
  <opc:EnumeratedValue Name="TargetInfo" Value="60" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="ReferenceDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>The description of a reference.</opc:Documentation>
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
   <opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
```

```
  <opc:Field Name="TypeDefinition" TypeName="ua:ExpandedNodeId" />
 </opc:StructuredType>

 <opc:OpaqueType Name="ContinuationPoint">
  <opc:Documentation>An identifier for a suspended query or browse operation.</opc:Documentation>
 </opc:OpaqueType>

 <opc:StructuredType Name="BrowseResult" BaseType="ua:ExtensionObject">
  <opc:Documentation>The result of a browse operation.</opc:Documentation>
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceDescription" LengthField="NoOfReferences" />
 </opc:StructuredType>

 <opc:StructuredType Name="BrowseRequest"
 BaseType="ua:ExtensionObject">
  <opc:Documentation>Browse the references for one or more nodes from the server address
space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="View" TypeName="tns:ViewDescription" />
  <opc:Field Name="RequestedMaxReferencesPerNode" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfNodesToBrowse" TypeName="opc:Int32" />
  <opc:Field Name="NodesToBrowse" TypeName="tns:BrowseDescription" LengthField="NoOfNodesToBrowse"
/>
 </opc:StructuredType>

 <opc:StructuredType Name="BrowseResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Browse the references for one or more nodes from the server address
space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:BrowseResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos"
 TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="BrowseNextRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Continues one or more browse operations.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfContinuationPoints" TypeName="opc:Int32" />
  <opc:Field Name="ContinuationPoints" TypeName="opc:ByteString" LengthField="NoOfContinuationPoints" />
 </opc:StructuredType>

 <opc:StructuredType Name="BrowseNextResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Continues one or more browse operations.</opc:Documentation>
```

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  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:BrowseResult"
LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePathElement" BaseType="ua:ExtensionObject">
  <opc:Documentation>An element in a relative path.</opc:Documentation>
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsInverse" TypeName="opc:Boolean" />
  <opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
  <opc:Field Name="TargetName" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePath" BaseType="ua:ExtensionObject">
  <opc:Documentation>A relative path constructed from reference types and browse names.</opc:Documentation>
  <opc:Field Name="NoOfElements" TypeName="opc:Int32" />
  <opc:Field Name="Elements" TypeName="tns:RelativePathElement" LengthField="NoOfElements"
/>
</opc:StructuredType>

<opc:StructuredType Name="BrowsePath" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to translate a path into a node id.</opc:Documentation>
  <opc:Field Name="StartingNode" TypeName="ua:NodeId" />
  <opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathTarget" BaseType="ua:ExtensionObject">
  <opc:Documentation>The target of the translated path.</opc:Documentation>
  <opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="RemainingPathIndex" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathResult" BaseType="ua:ExtensionObject">
  <opc:Documentation>The result of a translate opearation.</opc:Documentation>
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfTargets" TypeName="opc:Int32" />
  <opc:Field Name="Targets" TypeName="tns:BrowsePathTarget" LengthField="NoOfTargets"
/>
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfBrowsePaths" TypeName="opc:Int32" />
  <opc:Field Name="BrowsePaths" TypeName="tns:BrowsePath" LengthField="NoOfBrowsePaths" />
```

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</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:BrowsePathResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos"
TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToRegister" TypeName="opc:Int32" />
  <opc:Field Name="NodesToRegister" TypeName="ua:NodeId" LengthField="NoOfNodesToRegister" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfRegisteredNodeIds" TypeName="opc:Int32" />
  <opc:Field Name="RegisteredNodeIds" TypeName="ua:NodeId" LengthField="NoOfRegisteredNodeIds" />
</opc:StructuredType>

 <opc:StructuredType Name="UnregisterNodesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToUnregister" TypeName="opc:Int32" />
  <opc:Field Name="NodesToUnregister" TypeName="ua:NodeId" LengthField="NoOfNodesToUnregister" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:OpaqueType Name="Counter">
  <opc:Documentation>A monotonically increasing value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="NumericRange">
  <opc:Documentation>Specifies a range of array indexes.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType
```

```
 Name="Time">
  <opc:Documentation>A time value specified as HH:MM:SS.SSS.</opc:Documentation>
 </opc:OpaqueType>

 <opc:OpaqueType Name="Date">
  <opc:Documentation>A date value.</opc:Documentation>
 </opc:OpaqueType>

 <opc:StructuredType Name="EndpointConfiguration" BaseType="ua:ExtensionObject">
  <opc:Field Name="OperationTimeout" TypeName="opc:Int32" />
  <opc:Field Name="UseBinaryEncoding" TypeName="opc:Boolean" />
  <opc:Field Name="MaxStringLength" TypeName="opc:Int32" />
  <opc:Field Name="MaxByteStringLength" TypeName="opc:Int32" />
  <opc:Field Name="MaxArrayLength" TypeName="opc:Int32" />
  <opc:Field Name="MaxMessageSize" TypeName="opc:Int32" />
  <opc:Field Name="MaxBufferSize" TypeName="opc:Int32" />
  <opc:Field Name="ChannelLifetime" TypeName="opc:Int32" />
  <opc:Field Name="SecurityTokenLifetime" TypeName="opc:Int32" />
 </opc:StructuredType>

 <opc:StructuredType Name="QueryDataDescription" BaseType="ua:ExtensionObject">
  <opc:Field
 Name="RelativePath" TypeName="tns:RelativePath" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:StructuredType Name="NodeTypeDescription" BaseType="ua:ExtensionObject">
  <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="IncludeSubTypes" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfDataToReturn" TypeName="opc:Int32" />
  <opc:Field Name="DataToReturn" TypeName="tns:QueryDataDescription" LengthField="NoOfDataToReturn"
/>
 </opc:StructuredType>

 <opc:EnumeratedType Name="FilterOperator" LengthInBits="32">
  <opc:EnumeratedValue Name="Equals" Value="0" />
  <opc:EnumeratedValue Name="IsNull" Value="1" />
  <opc:EnumeratedValue Name="GreaterThan" Value="2" />
  <opc:EnumeratedValue Name="LessThan" Value="3" />
  <opc:EnumeratedValue Name="GreaterThanOrEqual" Value="4" />
  <opc:EnumeratedValue Name="LessThanOrEqual" Value="5"
 />
  <opc:EnumeratedValue Name="Like" Value="6" />
  <opc:EnumeratedValue Name="Not" Value="7" />
  <opc:EnumeratedValue Name="Between" Value="8" />
  <opc:EnumeratedValue Name="InList" Value="9" />
  <opc:EnumeratedValue Name="And" Value="10" />
```

```
  <opc:EnumeratedValue Name="Or" Value="11" />
  <opc:EnumeratedValue Name="Cast" Value="12" />
  <opc:EnumeratedValue Name="InView" Value="13" />
  <opc:EnumeratedValue Name="OfType" Value="14" />
  <opc:EnumeratedValue Name="RelatedTo" Value="15" />
  <opc:EnumeratedValue Name="BitwiseAnd" Value="16" />
  <opc:EnumeratedValue Name="BitwiseOr" Value="17" />
</opc:EnumeratedType>

<opc:StructuredType Name="QueryDataSet" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="NoOfValues" TypeName="opc:Int32" />
  <opc:Field Name="Values" TypeName="ua:Variant" LengthField="NoOfValues"
/>
</opc:StructuredType>

<opc:StructuredType Name="NodeReference" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfReferencedNodeIds" TypeName="opc:Int32" />
  <opc:Field Name="ReferencedNodeIds" TypeName="ua:NodeId" LengthField="NoOfReferencedNodeIds" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilterElement" BaseType="ua:ExtensionObject">
  <opc:Field Name="FilterOperator" TypeName="tns:FilterOperator" />
  <opc:Field Name="NoOfFilterOperands" TypeName="opc:Int32" />
  <opc:Field Name="FilterOperands" TypeName="ua:ExtensionObject" LengthField="NoOfFilterOperands" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilter" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfElements" TypeName="opc:Int32" />
  <opc:Field Name="Elements" TypeName="tns:ContentFilterElement"
LengthField="NoOfElements" />
</opc:StructuredType>

<opc:StructuredType Name="FilterOperand" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="ElementOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="Index" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="LiteralOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>
```

```
 <opc:StructuredType Name="AttributeOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="Alias" TypeName="opc:String" />
  <opc:Field Name="BrowsePath" TypeName="tns:RelativePath" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:StructuredType Name="SimpleAttributeOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="TypeDefinitionId" TypeName="ua:NodeId"
/>
  <opc:Field Name="NoOfBrowsePath" TypeName="opc:Int32" />
  <opc:Field Name="BrowsePath" TypeName="ua:QualifiedName" LengthField="NoOfBrowsePath" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:StructuredType Name="ContentFilterElementResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfOperandStatusCodes" TypeName="opc:Int32" />
  <opc:Field Name="OperandStatusCodes" TypeName="ua:StatusCode" LengthField="NoOfOperandStatusCodes"
/>
  <opc:Field Name="NoOfOperandDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="OperandDiagnosticInfos" TypeName="ua:DiagnosticInfo"
LengthField="NoOfOperandDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="ContentFilterResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfElementResults" TypeName="opc:Int32" />
  <opc:Field
 Name="ElementResults" TypeName="tns:ContentFilterElementResult" LengthField="NoOfElementResults" />
  <opc:Field Name="NoOfElementDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="ElementDiagnosticInfos" TypeName="ua:DiagnosticInfo"
LengthField="NoOfElementDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="ParsingResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfDataStatusCodes" TypeName="opc:Int32" />
  <opc:Field Name="DataStatusCodes" TypeName="ua:StatusCode" LengthField="NoOfDataStatusCodes" />
  <opc:Field Name="NoOfDataDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DataDiagnosticInfos" TypeName="ua:DiagnosticInfo"
LengthField="NoOfDataDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="QueryFirstRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="View" TypeName="tns:ViewDescription"
```

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/>
  <opc:Field Name="NoOfNodeTypes" TypeName="opc:Int32" />
  <opc:Field Name="NodeTypes" TypeName="tns:NodeTypeDescription" LengthField="NoOfNodeTypes" />
  <opc:Field Name="Filter" TypeName="tns:ContentFilter" />
  <opc:Field Name="MaxDataSetsToReturn" TypeName="opc:UInt32" />
  <opc:Field Name="MaxReferencesToReturn" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="QueryFirstResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfQueryDataSets" TypeName="opc:Int32" />
  <opc:Field Name="QueryDataSets" TypeName="tns:QueryDataSet" LengthField="NoOfQueryDataSets" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
  <opc:Field Name="NoOfParsingResults" TypeName="opc:Int32" />
  <opc:Field Name="ParsingResults" TypeName="tns:ParsingResult" LengthField="NoOfParsingResults" />
  <opc:Field Name="NoOfDiagnosticInfos"
TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
  <opc:Field Name="FilterResult" TypeName="tns:ContentFilterResult" />
</opc:StructuredType>

<opc:StructuredType Name="QueryNextRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="ReleaseContinuationPoint" TypeName="opc:Boolean" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="QueryNextResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfQueryDataSets" TypeName="opc:Int32" />
  <opc:Field Name="QueryDataSets" TypeName="tns:QueryDataSet" LengthField="NoOfQueryDataSets" />
  <opc:Field Name="RevisedContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:EnumeratedType Name="TimestampsToReturn"
LengthInBits="32">
  <opc:EnumeratedValue Name="Source" Value="0" />
  <opc:EnumeratedValue Name="Server" Value="1" />
  <opc:EnumeratedValue Name="Both" Value="2" />
  <opc:EnumeratedValue Name="Neither" Value="3" />
  <opc:EnumeratedValue Name="Invalid" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="ReadValueId" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="DataEncoding" TypeName="ua:QualifiedName" />
```

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</opc:StructuredType>

<opc:StructuredType Name="ReadRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="MaxAge" TypeName="opc:Double" />
  <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
  <opc:Field Name="NoOfNodesToRead" TypeName="opc:Int32" />
  <opc:Field Name="NodesToRead"
TypeName="tns:ReadValueId" LengthField="NoOfNodesToRead" />
</opc:StructuredType>

<opc:StructuredType Name="ReadResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:DataValue" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadValueId" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="DataEncoding" TypeName="ua:QualifiedName" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadResult" BaseType="ua:ExtensionObject">

 <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
  <opc:Field Name="HistoryData" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadDetails" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="ReadEventDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="NumValuesPerNode" TypeName="opc:UInt32" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
  <opc:Field Name="Filter" TypeName="tns:EventFilter" />
</opc:StructuredType>

<opc:StructuredType Name="ReadRawModifiedDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="IsReadModified" TypeName="opc:Boolean" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
  <opc:Field Name="NumValuesPerNode" TypeName="opc:UInt32" />
```

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  <opc:Field Name="ReturnBounds" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="ReadProcessedDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
  <opc:Field Name="ProcessingInterval" TypeName="opc:Double" />
  <opc:Field Name="NoOfAggregateType" TypeName="opc:Int32" />
  <opc:Field Name="AggregateType" TypeName="ua:NodeId" LengthField="NoOfAggregateType" />
  <opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
 </opc:StructuredType>

 <opc:StructuredType Name="ReadAtTimeDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="NoOfReqTimes" TypeName="opc:Int32" />
  <opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NoOfReqTimes" />
  <opc:Field Name="UseSimpleBounds" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="HistoryData" BaseType="ua:ExtensionObject">
   <opc:Field Name="NoOfDataValues" TypeName="opc:Int32" />
  <opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NoOfDataValues" />
 </opc:StructuredType>

 <opc:StructuredType Name="ModificationInfo" BaseType="ua:ExtensionObject">
  <opc:Field Name="ModificationTime" TypeName="opc:DateTime" />
  <opc:Field Name="UpdateType" TypeName="tns:HistoryUpdateType" />
  <opc:Field Name="UserName" TypeName="opc:String" />
 </opc:StructuredType>

 <opc:StructuredType Name="HistoryModifiedData" BaseType="tns:HistoryData">
  <opc:Field Name="NoOfDataValues" TypeName="opc:Int32" />
  <opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NoOfDataValues" />
  <opc:Field Name="NoOfModificationInfos" TypeName="opc:Int32" />
  <opc:Field Name="ModificationInfos" TypeName="tns:ModificationInfo"
LengthField="NoOfModificationInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="HistoryEvent" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfEvents"
 TypeName="opc:Int32" />
  <opc:Field Name="Events" TypeName="tns:HistoryEventFieldList" LengthField="NoOfEvents" />
 </opc:StructuredType>

 <opc:StructuredType Name="HistoryReadRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="HistoryReadDetails" TypeName="ua:ExtensionObject" />
  <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
```

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  <opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfNodesToRead" TypeName="opc:Int32" />
  <opc:Field Name="NodesToRead" TypeName="tns:HistoryReadValueId" LengthField="NoOfNodesToRead" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:HistoryReadResult" LengthField="NoOfResults"
/>
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="WriteValue" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="Value" TypeName="ua:DataValue" />
</opc:StructuredType>

<opc:StructuredType Name="WriteRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToWrite" TypeName="opc:Int32" />
  <opc:Field Name="NodesToWrite" TypeName="tns:WriteValue" LengthField="NoOfNodesToWrite" />
</opc:StructuredType>

<opc:StructuredType Name="WriteResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />

  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateDetails" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
</opc:StructuredType>

<opc:EnumeratedType Name="HistoryUpdateType" LengthInBits="32">
  <opc:EnumeratedValue Name="Insert" Value="1" />
  <opc:EnumeratedValue Name="Replace" Value="2" />
  <opc:EnumeratedValue Name="Update" Value="3" />
  <opc:EnumeratedValue Name="Delete" Value="4" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PerformUpdateType" LengthInBits="32">
```

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  <opc:EnumeratedValue Name="Insert" Value="1" />
  <opc:EnumeratedValue Name="Replace" Value="2" />
  <opc:EnumeratedValue Name="Update"
Value="3" />
  <opc:EnumeratedValue Name="Remove" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="UpdateDataDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />
  <opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />
</opc:StructuredType>

<opc:StructuredType Name="UpdateStructureDataDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />
  <opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />
</opc:StructuredType>

<opc:StructuredType Name="UpdateEventDetails"
BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="Filter" TypeName="tns:EventFilter" />
  <opc:Field Name="NoOfEventData" TypeName="opc:Int32" />
  <opc:Field Name="EventData" TypeName="tns:HistoryEventFieldList" LengthField="NoOfEventData" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteRawModifiedDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="IsDeleteModified" TypeName="opc:Boolean" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteAtTimeDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails"
/>
  <opc:Field Name="NoOfReqTimes" TypeName="opc:Int32" />
  <opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NoOfReqTimes" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteEventDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="NoOfEventIds" TypeName="opc:Int32" />
  <opc:Field Name="EventIds" TypeName="opc:ByteString" LengthField="NoOfEventIds" />
```

```
 </opc:StructuredType>

 <opc:StructuredType Name="HistoryUpdateResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfOperationResults" TypeName="opc:Int32" />
  <opc:Field Name="OperationResults" TypeName="ua:StatusCode" LengthField="NoOfOperationResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos"
/>
 </opc:StructuredType>

 <opc:StructuredType Name="HistoryUpdateRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfHistoryUpdateDetails" TypeName="opc:Int32" />
  <opc:Field Name="HistoryUpdateDetails" TypeName="ua:ExtensionObject"
LengthField="NoOfHistoryUpdateDetails" />
 </opc:StructuredType>

 <opc:StructuredType Name="HistoryUpdateResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:HistoryUpdateResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="CallMethodRequest" BaseType="ua:ExtensionObject">
  <opc:Field
 Name="ObjectId" TypeName="ua:NodeId" />
  <opc:Field Name="MethodId" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfInputArguments" TypeName="opc:Int32" />
  <opc:Field Name="InputArguments" TypeName="ua:Variant" LengthField="NoOfInputArguments" />
 </opc:StructuredType>

 <opc:StructuredType Name="CallMethodResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfInputArgumentResults" TypeName="opc:Int32" />
  <opc:Field Name="InputArgumentResults" TypeName="ua:StatusCode"
LengthField="NoOfInputArgumentResults" />
  <opc:Field Name="NoOfInputArgumentDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="InputArgumentDiagnosticInfos" TypeName="ua:DiagnosticInfo"
LengthField="NoOfInputArgumentDiagnosticInfos" />
  <opc:Field Name="NoOfOutputArguments" TypeName="opc:Int32" />
  <opc:Field Name="OutputArguments" TypeName="ua:Variant" LengthField="NoOfOutputArguments" />
 </opc:StructuredType>

  <opc:StructuredType Name="CallRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
```

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  <opc:Field Name="NoOfMethodsToCall" TypeName="opc:Int32" />
  <opc:Field Name="MethodsToCall" TypeName="tns:CallMethodRequest" LengthField="NoOfMethodsToCall"
/>
 </opc:StructuredType>

 <opc:StructuredType Name="CallResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:CallMethodResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="MonitoringMode" LengthInBits="32">
  <opc:EnumeratedValue Name="Disabled" Value="0" />
  <opc:EnumeratedValue Name="Sampling" Value="1" />

  <opc:EnumeratedValue Name="Reporting" Value="2" />
 </opc:EnumeratedType>

 <opc:EnumeratedType Name="DataChangeTrigger" LengthInBits="32">
  <opc:EnumeratedValue Name="Status" Value="0" />
  <opc:EnumeratedValue Name="StatusValue" Value="1" />
  <opc:EnumeratedValue Name="StatusValueTimestamp" Value="2" />
 </opc:EnumeratedType>

 <opc:EnumeratedType Name="DeadbandType" LengthInBits="32">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Absolute" Value="1" />
  <opc:EnumeratedValue Name="Percent" Value="2" />
 </opc:EnumeratedType>

 <opc:StructuredType Name="MonitoringFilter" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="DataChangeFilter" BaseType="tns:MonitoringFilter">
  <opc:Field Name="Trigger" TypeName="tns:DataChangeTrigger" />
  <opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
  <opc:Field Name="DeadbandValue" TypeName="opc:Double" />
 </opc:StructuredType>

 <opc:StructuredType
 Name="EventFilter" BaseType="tns:MonitoringFilter">
  <opc:Field Name="NoOfSelectClauses" TypeName="opc:Int32" />
  <opc:Field Name="SelectClauses" TypeName="tns:SimpleAttributeOperand" LengthField="NoOfSelectClauses"
/>
  <opc:Field Name="WhereClause" TypeName="tns:ContentFilter" />
 </opc:StructuredType>
```

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 <opc:StructuredType Name="AggregateConfiguration" BaseType="ua:ExtensionObject">
  <opc:Field Name="UseServerCapabilitiesDefaults" TypeName="opc:Boolean" />
  <opc:Field Name="TreatUncertainAsBad" TypeName="opc:Boolean" />
  <opc:Field Name="PercentDataBad" TypeName="opc:Byte" />
  <opc:Field Name="PercentDataGood" TypeName="opc:Byte" />
  <opc:Field Name="UseSlopedExtrapolation" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="AggregateFilter" BaseType="tns:MonitoringFilter">
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="AggregateType" TypeName="ua:NodeId" />
  <opc:Field Name="ProcessingInterval"
 TypeName="opc:Double" />
  <opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
 </opc:StructuredType>

 <opc:StructuredType Name="MonitoringFilterResult" BaseType="ua:ExtensionObject">
 </opc:StructuredType>

 <opc:StructuredType Name="EventFilterResult" BaseType="tns:MonitoringFilterResult">
  <opc:Field Name="NoOfSelectClauseResults" TypeName="opc:Int32" />
  <opc:Field Name="SelectClauseResults" TypeName="ua:StatusCode" LengthField="NoOfSelectClauseResults"
/>
  <opc:Field Name="NoOfSelectClauseDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="SelectClauseDiagnosticInfos" TypeName="ua:DiagnosticInfo"
LengthField="NoOfSelectClauseDiagnosticInfos" />
  <opc:Field Name="WhereClauseResult" TypeName="tns:ContentFilterResult" />
 </opc:StructuredType>

 <opc:StructuredType Name="AggregateFilterResult" BaseType="tns:MonitoringFilterResult">
  <opc:Field Name="RevisedStartTime" TypeName="opc:DateTime" />
  <opc:Field Name="RevisedProcessingInterval"
 TypeName="opc:Double" />
  <opc:Field Name="RevisedAggregateConfiguration" TypeName="tns:AggregateConfiguration" />
 </opc:StructuredType>

 <opc:StructuredType Name="MonitoringParameters" BaseType="ua:ExtensionObject">
  <opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
  <opc:Field Name="SamplingInterval" TypeName="opc:Double" />
  <opc:Field Name="Filter" TypeName="ua:ExtensionObject" />
  <opc:Field Name="QueueSize" TypeName="opc:UInt32" />
  <opc:Field Name="DiscardOldest" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="MonitoredItemCreateRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="ItemToMonitor" TypeName="tns:ReadValueId" />
  <opc:Field Name="MonitoringMode" TypeName="tns:MonitoringMode" />
```

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  <opc:Field Name="RequestedParameters" TypeName="tns:MonitoringParameters" />
 </opc:StructuredType>

 <opc:StructuredType Name="MonitoredItemCreateResult" BaseType="ua:ExtensionObject">
  <opc:Field
 Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="MonitoredItemId" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedSamplingInterval" TypeName="opc:Double" />
  <opc:Field Name="RevisedQueueSize" TypeName="opc:UInt32" />
  <opc:Field Name="FilterResult" TypeName="ua:ExtensionObject" />
 </opc:StructuredType>

 <opc:StructuredType Name="CreateMonitoredItemsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
  <opc:Field Name="NoOfItemsToCreate" TypeName="opc:Int32" />
  <opc:Field Name="ItemsToCreate" TypeName="tns:MonitoredItemCreateRequest"
LengthField="NoOfItemsToCreate" />
 </opc:StructuredType>

 <opc:StructuredType Name="CreateMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
   <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:MonitoredItemCreateResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="MonitoredItemModifyRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="MonitoredItemId" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedParameters" TypeName="tns:MonitoringParameters" />
 </opc:StructuredType>

 <opc:StructuredType Name="MonitoredItemModifyResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="RevisedSamplingInterval" TypeName="opc:Double" />
  <opc:Field Name="RevisedQueueSize" TypeName="opc:UInt32" />
  <opc:Field Name="FilterResult" TypeName="ua:ExtensionObject" />
 </opc:StructuredType>

 <opc:StructuredType
 Name="ModifyMonitoredItemsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
  <opc:Field Name="NoOfItemsToModify" TypeName="opc:Int32" />
  <opc:Field Name="ItemsToModify" TypeName="tns:MonitoredItemModifyRequest"
```

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LengthField="NoOfItemsToModify" />
 </opc:StructuredType>

 <opc:StructuredType Name="ModifyMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:MonitoredItemModifyResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType
 Name="SetMonitoringModeRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="MonitoringMode" TypeName="tns:MonitoringMode" />
  <opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
  <opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" LengthField="NoOfMonitoredItemIds" />
 </opc:StructuredType>

 <opc:StructuredType Name="SetMonitoringModeResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="SetTriggeringRequest"
 BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="TriggeringItemId" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfLinksToAdd" TypeName="opc:Int32" />
  <opc:Field Name="LinksToAdd" TypeName="opc:UInt32" LengthField="NoOfLinksToAdd" />
  <opc:Field Name="NoOfLinksToRemove" TypeName="opc:Int32" />
  <opc:Field Name="LinksToRemove" TypeName="opc:UInt32" LengthField="NoOfLinksToRemove" />
 </opc:StructuredType>

 <opc:StructuredType Name="SetTriggeringResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfAddResults" TypeName="opc:Int32" />
  <opc:Field Name="AddResults" TypeName="ua:StatusCode" LengthField="NoOfAddResults" />
  <opc:Field Name="NoOfAddDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="AddDiagnosticInfos" TypeName="ua:DiagnosticInfo"
 LengthField="NoOfAddDiagnosticInfos" />
  <opc:Field Name="NoOfRemoveResults" TypeName="opc:Int32" />
  <opc:Field Name="RemoveResults" TypeName="ua:StatusCode" LengthField="NoOfRemoveResults" />
```

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  <opc:Field Name="NoOfRemoveDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="RemoveDiagnosticInfos" TypeName="ua:DiagnosticInfo"
LengthField="NoOfRemoveDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="DeleteMonitoredItemsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
  <opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" LengthField="NoOfMonitoredItemIds" />
 </opc:StructuredType>

 <opc:StructuredType Name="DeleteMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field
 Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="CreateSubscriptionRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
  <opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
  <opc:Field Name="Priority" TypeName="opc:Byte" />
 </opc:StructuredType>

 <opc:StructuredType Name="CreateSubscriptionResponse" BaseType="ua:ExtensionObject">
   <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:StructuredType Name="ModifySubscriptionRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
  <opc:Field Name="Priority" TypeName="opc:Byte" />
 </opc:StructuredType>
```

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<opc:StructuredType Name="ModifySubscriptionResponse"
BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SetPublishingModeRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
</opc:StructuredType>

<opc:StructuredType Name="SetPublishingModeResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results"
TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="NotificationMessage" BaseType="ua:ExtensionObject">
  <opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
  <opc:Field Name="PublishTime" TypeName="opc:DateTime" />
  <opc:Field Name="NoOfNotificationData" TypeName="opc:Int32" />
  <opc:Field Name="NotificationData" TypeName="ua:ExtensionObject" LengthField="NoOfNotificationData" />
</opc:StructuredType>

<opc:StructuredType Name="NotificationData" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataChangeNotification" BaseType="tns:NotificationData">
  <opc:Field Name="NoOfMonitoredItems" TypeName="opc:Int32" />
  <opc:Field Name="MonitoredItems" TypeName="tns:MonitoredItemNotification"
LengthField="NoOfMonitoredItems"
/>
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemNotification" BaseType="ua:ExtensionObject">
  <opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
  <opc:Field Name="Value" TypeName="ua:DataValue" />
</opc:StructuredType>
```

```
 <opc:StructuredType Name="EventNotificationList" BaseType="tns:NotificationData">
  <opc:Field Name="NoOfEvents" TypeName="opc:Int32" />
  <opc:Field Name="Events" TypeName="tns:EventFieldList" LengthField="NoOfEvents" />
 </opc:StructuredType>

 <opc:StructuredType Name="EventFieldList" BaseType="ua:ExtensionObject">
  <opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
  <opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
 </opc:StructuredType>

  <opc:StructuredType Name="HistoryEventFieldList" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
  <opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
 </opc:StructuredType>

 <opc:StructuredType Name="StatusChangeNotification" BaseType="tns:NotificationData">
  <opc:Field Name="Status" TypeName="ua:StatusCode" />
  <opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" />
 </opc:StructuredType>

 <opc:StructuredType Name="SubscriptionAcknowledgement" BaseType="ua:ExtensionObject">
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:StructuredType Name="PublishRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionAcknowledgements" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionAcknowledgements"
 TypeName="tns:SubscriptionAcknowledgement" LengthField="NoOfSubscriptionAcknowledgements" />
 </opc:StructuredType>

 <opc:StructuredType Name="PublishResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
  <opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32"
LengthField="NoOfAvailableSequenceNumbers" />
  <opc:Field Name="MoreNotifications" TypeName="opc:Boolean" />
  <opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>
```

```
 <opc:StructuredType Name="RepublishRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RetransmitSequenceNumber" TypeName="opc:UInt32" />
 </opc:StructuredType>

 <opc:StructuredType Name="RepublishResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
 </opc:StructuredType>

 <opc:StructuredType Name="TransferResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
  <opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32"
LengthField="NoOfAvailableSequenceNumbers" />
 </opc:StructuredType>

 <opc:StructuredType Name="TransferSubscriptionsRequest" BaseType="ua:ExtensionObject">
   <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
  <opc:Field Name="SendInitialValues" TypeName="opc:Boolean" />
 </opc:StructuredType>

 <opc:StructuredType Name="TransferSubscriptionsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:TransferResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>

 <opc:StructuredType Name="DeleteSubscriptionsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field
 Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
 </opc:StructuredType>

 <opc:StructuredType Name="DeleteSubscriptionsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
 </opc:StructuredType>
```

```
<opc:StructuredType Name="BuildInfo" BaseType="ua:ExtensionObject">
  <opc:Field Name="ProductUri" TypeName="opc:String" />
  <opc:Field Name="ManufacturerName" TypeName="opc:String" />
  <opc:Field Name="ProductName" TypeName="opc:String" />
  <opc:Field Name="SoftwareVersion" TypeName="opc:String" />
  <opc:Field
Name="BuildNumber" TypeName="opc:String" />
  <opc:Field Name="BuildDate" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:EnumeratedType Name="RedundancySupport" LengthInBits="32">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Cold" Value="1" />
  <opc:EnumeratedValue Name="Warm" Value="2" />
  <opc:EnumeratedValue Name="Hot" Value="3" />
  <opc:EnumeratedValue Name="Transparent" Value="4" />
  <opc:EnumeratedValue Name="HotAndMirrored" Value="5" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="ServerState" LengthInBits="32">
  <opc:EnumeratedValue Name="Running" Value="0" />
  <opc:EnumeratedValue Name="Failed" Value="1" />
  <opc:EnumeratedValue Name="NoConfiguration" Value="2" />
  <opc:EnumeratedValue Name="Suspended" Value="3" />
  <opc:EnumeratedValue Name="Shutdown" Value="4" />
  <opc:EnumeratedValue Name="Test" Value="5" />
  <opc:EnumeratedValue Name="CommunicationFault" Value="6" />
  <opc:EnumeratedValue
Name="Unknown" Value="7" />
</opc:EnumeratedType>

<opc:StructuredType Name="RedundantServerDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="ServerId" TypeName="opc:String" />
  <opc:Field Name="ServiceLevel" TypeName="opc:Byte" />
  <opc:Field Name="ServerState" TypeName="tns:ServerState" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointUrlListDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfEndpointUrlList" TypeName="opc:Int32" />
  <opc:Field Name="EndpointUrlList" TypeName="opc:String" LengthField="NoOfEndpointUrlList" />
</opc:StructuredType>

<opc:StructuredType Name="NetworkGroupDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="ServerUri" TypeName="opc:String" />
  <opc:Field Name="NoOfNetworkPaths" TypeName="opc:Int32" />
  <opc:Field Name="NetworkPaths" TypeName="tns:EndpointUrlListDataType"
LengthField="NoOfNetworkPaths" />
</opc:StructuredType>
```

```
<opc:StructuredType Name="SamplingIntervalDiagnosticsDataType"
BaseType="ua:ExtensionObject">
  <opc:Field Name="SamplingInterval" TypeName="opc:Double" />
  <opc:Field Name="MonitoredItemCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxMonitoredItemCount" TypeName="opc:UInt32" />
  <opc:Field Name="DisabledMonitoredItemCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ServerDiagnosticsSummaryDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="ServerViewCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentSessionCount" TypeName="opc:UInt32" />
  <opc:Field Name="CumulatedSessionCount" TypeName="opc:UInt32" />
  <opc:Field Name="SecurityRejectedSessionCount" TypeName="opc:UInt32" />
  <opc:Field Name="RejectedSessionCount" TypeName="opc:UInt32" />
  <opc:Field Name="SessionTimeoutCount" TypeName="opc:UInt32" />
  <opc:Field Name="SessionAbortCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentSubscriptionCount" TypeName="opc:UInt32" />
  <opc:Field
Name="CumulatedSubscriptionCount" TypeName="opc:UInt32" />
  <opc:Field Name="PublishingIntervalCount" TypeName="opc:UInt32" />
  <opc:Field Name="SecurityRejectedRequestsCount" TypeName="opc:UInt32" />
  <opc:Field Name="RejectedRequestsCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ServerStatusDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="CurrentTime" TypeName="opc:DateTime" />
  <opc:Field Name="State" TypeName="tns:ServerState" />
  <opc:Field Name="BuildInfo" TypeName="tns:BuildInfo" />
  <opc:Field Name="SecondsTillShutdown" TypeName="opc:UInt32" />
  <opc:Field Name="ShutdownReason" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="SessionDiagnosticsDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="SessionId" TypeName="ua:NodeId" />
  <opc:Field Name="SessionName" TypeName="opc:String" />
  <opc:Field
Name="ClientDescription" TypeName="tns:ApplicationDescription" />
  <opc:Field Name="ServerUri" TypeName="opc:String" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
  <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
  <opc:Field Name="ActualSessionTimeout" TypeName="opc:Double" />
  <opc:Field Name="MaxResponseMessageSize" TypeName="opc:UInt32" />
  <opc:Field Name="ClientConnectionTime" TypeName="opc:DateTime" />
  <opc:Field Name="ClientLastContactTime" TypeName="opc:DateTime" />
  <opc:Field Name="CurrentSubscriptionsCount" TypeName="opc:UInt32" />
```

```
  <opc:Field Name="CurrentMonitoredItemsCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentPublishRequestsInQueue" TypeName="opc:UInt32" />
  <opc:Field Name="TotalRequestCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="UnauthorizedRequestCount" TypeName="opc:UInt32" />
  <opc:Field
Name="ReadCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="HistoryReadCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="WriteCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="HistoryUpdateCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="CallCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="CreateMonitoredItemsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="ModifyMonitoredItemsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="SetMonitoringModeCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="SetTriggeringCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="DeleteMonitoredItemsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="CreateSubscriptionCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="ModifySubscriptionCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="SetPublishingModeCount"
TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="PublishCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="RepublishCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="TransferSubscriptionsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="DeleteSubscriptionsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="AddNodesCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="AddReferencesCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="DeleteNodesCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="DeleteReferencesCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="BrowseCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="BrowseNextCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="TranslateBrowsePathsToNodeIdsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="QueryFirstCount"
TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="QueryNextCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="RegisterNodesCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="UnregisterNodesCount" TypeName="tns:ServiceCounterDataType" />
</opc:StructuredType>

<opc:StructuredType Name="SessionSecurityDiagnosticsDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="SessionId" TypeName="ua:NodeId" />
  <opc:Field Name="ClientUserIdOfSession" TypeName="opc:String" />
  <opc:Field Name="NoOfClientUserIdHistory" TypeName="opc:Int32" />
  <opc:Field Name="ClientUserIdHistory" TypeName="opc:String" LengthField="NoOfClientUserIdHistory" />
  <opc:Field Name="AuthenticationMechanism" TypeName="opc:String" />
  <opc:Field Name="Encoding" TypeName="opc:String" />
  <opc:Field Name="TransportProtocol" TypeName="opc:String" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityPolicyUri"
```

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TypeName="opc:String" />
  <opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="ServiceCounterDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="TotalCount" TypeName="opc:UInt32" />
  <opc:Field Name="ErrorCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="StatusResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" />
</opc:StructuredType>

<opc:StructuredType Name="SubscriptionDiagnosticsDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="SessionId" TypeName="ua:NodeId" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="Priority" TypeName="opc:Byte" />
  <opc:Field Name="PublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="MaxKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field
Name="MaxLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
  <opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
  <opc:Field Name="ModifyCount" TypeName="opc:UInt32" />
  <opc:Field Name="EnableCount" TypeName="opc:UInt32" />
  <opc:Field Name="DisableCount" TypeName="opc:UInt32" />
  <opc:Field Name="RepublishRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="RepublishMessageRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="RepublishMessageCount" TypeName="opc:UInt32" />
  <opc:Field Name="TransferRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="TransferredToAltClientCount" TypeName="opc:UInt32" />
  <opc:Field Name="TransferredToSameClientCount" TypeName="opc:UInt32" />
  <opc:Field Name="PublishRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="DataChangeNotificationsCount" TypeName="opc:UInt32" />
  <opc:Field Name="EventNotificationsCount" TypeName="opc:UInt32"
/>
  <opc:Field Name="NotificationsCount" TypeName="opc:UInt32" />
  <opc:Field Name="LatePublishRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="UnacknowledgedMessageCount" TypeName="opc:UInt32" />
  <opc:Field Name="DiscardedMessageCount" TypeName="opc:UInt32" />
  <opc:Field Name="MonitoredItemCount" TypeName="opc:UInt32" />
  <opc:Field Name="DisabledMonitoredItemCount" TypeName="opc:UInt32" />
  <opc:Field Name="MonitoringQueueOverflowCount" TypeName="opc:UInt32" />
  <opc:Field Name="NextSequenceNumber" TypeName="opc:UInt32" />
  <opc:Field Name="EventQueueOverFlowCount" TypeName="opc:UInt32" />
```

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</opc:StructuredType>

<opc:EnumeratedType Name="ModelChangeStructureVerbMask" LengthInBits="32">
  <opc:EnumeratedValue Name="NodeAdded" Value="1" />
  <opc:EnumeratedValue Name="NodeDeleted" Value="2" />
   <opc:EnumeratedValue Name="ReferenceAdded" Value="4" />
  <opc:EnumeratedValue Name="ReferenceDeleted" Value="8" />
  <opc:EnumeratedValue Name="DataTypeChanged" Value="16" />
</opc:EnumeratedType>

<opc:StructuredType Name="ModelChangeStructureDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Affected" TypeName="ua:NodeId" />
  <opc:Field Name="AffectedType" TypeName="ua:NodeId" />
  <opc:Field Name="Verb" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="SemanticChangeStructureDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Affected" TypeName="ua:NodeId" />
  <opc:Field Name="AffectedType" TypeName="ua:NodeId" />
</opc:StructuredType>

<opc:StructuredType Name="Range" BaseType="ua:ExtensionObject">
  <opc:Field Name="Low" TypeName="opc:Double" />
  <opc:Field Name="High" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="EUInformation" BaseType="ua:ExtensionObject">
  <opc:Field
Name="NamespaceUri" TypeName="opc:String" />
  <opc:Field Name="UnitId" TypeName="opc:Int32" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:EnumeratedType Name="AxisScaleEnumeration" LengthInBits="32">
  <opc:EnumeratedValue Name="Linear" Value="0" />
  <opc:EnumeratedValue Name="Log" Value="1" />
  <opc:EnumeratedValue Name="Ln" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="ComplexNumberType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Real" TypeName="opc:Float" />
  <opc:Field Name="Imaginary" TypeName="opc:Float" />
</opc:StructuredType>

<opc:StructuredType Name="DoubleComplexNumberType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Real" TypeName="opc:Double" />
  <opc:Field Name="Imaginary" TypeName="opc:Double" />
```

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</opc:StructuredType>

<opc:StructuredType Name="AxisInformation" BaseType="ua:ExtensionObject">
  <opc:Field Name="EngineeringUnits" TypeName="tns:EUInformation" />
  <opc:Field Name="EURange" TypeName="tns:Range" />
  <opc:Field Name="Title" TypeName="ua:LocalizedText" />
  <opc:Field Name="AxisScaleType" TypeName="tns:AxisScaleEnumeration" />
  <opc:Field Name="NoOfAxisSteps" TypeName="opc:Int32" />
  <opc:Field Name="AxisSteps" TypeName="opc:Double" LengthField="NoOfAxisSteps" />
</opc:StructuredType>

<opc:StructuredType Name="XVType" BaseType="ua:ExtensionObject">
  <opc:Field Name="X" TypeName="opc:Double" />
  <opc:Field Name="Value" TypeName="opc:Float" />
</opc:StructuredType>

<opc:StructuredType Name="ProgramDiagnosticDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="CreateSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="CreateClientName" TypeName="opc:String" />
  <opc:Field Name="InvocationCreationTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastTransitionTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastMethodCall"
 TypeName="opc:String" />
  <opc:Field Name="LastMethodSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfLastMethodInputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodInputArguments" TypeName="tns:Argument"
LengthField="NoOfLastMethodInputArguments" />
  <opc:Field Name="NoOfLastMethodOutputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodOutputArguments" TypeName="tns:Argument"
LengthField="NoOfLastMethodOutputArguments" />
  <opc:Field Name="LastMethodCallTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastMethodReturnStatus" TypeName="tns:StatusResult" />
</opc:StructuredType>

<opc:StructuredType Name="ProgramDiagnostic2DataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="CreateSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="CreateClientName" TypeName="opc:String" />
  <opc:Field Name="InvocationCreationTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastTransitionTime" TypeName="opc:DateTime"
/>
  <opc:Field Name="LastMethodCall" TypeName="opc:String" />
  <opc:Field Name="LastMethodSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfLastMethodInputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodInputArguments" TypeName="tns:Argument"
LengthField="NoOfLastMethodInputArguments" />
  <opc:Field Name="NoOfLastMethodOutputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodOutputArguments" TypeName="tns:Argument"
LengthField="NoOfLastMethodOutputArguments" />
```

```
  <opc:Field Name="NoOfLastMethodInputValues" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodInputValues" TypeName="ua:Variant"
LengthField="NoOfLastMethodInputValues" />
  <opc:Field Name="NoOfLastMethodOutputValues" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodOutputValues" TypeName="ua:Variant"
LengthField="NoOfLastMethodOutputValues" />
  <opc:Field Name="LastMethodCallTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastMethodReturnStatus"
 TypeName="tns:StatusResult" />
 </opc:StructuredType>

 <opc:StructuredType Name="Annotation" BaseType="ua:ExtensionObject">
  <opc:Field Name="Message" TypeName="opc:String" />
  <opc:Field Name="UserName" TypeName="opc:String" />
  <opc:Field Name="AnnotationTime" TypeName="opc:DateTime" />
 </opc:StructuredType>

 <opc:EnumeratedType Name="ExceptionDeviationFormat" LengthInBits="32">
  <opc:EnumeratedValue Name="AbsoluteValue" Value="0" />
  <opc:EnumeratedValue Name="PercentOfValue" Value="1" />
  <opc:EnumeratedValue Name="PercentOfRange" Value="2" />
  <opc:EnumeratedValue Name="PercentOfEURange" Value="3" />
  <opc:EnumeratedValue Name="Unknown" Value="4" />
 </opc:EnumeratedType>

</opc:TypeDictionary>
```

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1.547 v1-gonum 0.11.0

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1.549 x-exp 0.0.0-20200513190911-00229845015e

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1.551 aliyun-alibaba-cloud-sdk-go 1.61.1529

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// DataInQueryLicenses is a nested struct in linkface response
type DataInQueryLicenses struct {
DataItem []DataItem `json:"DataItem" xml:"DataItem"`
}
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import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetLicense invokes the mts.GetLicense API synchronously
// api document: https://help.aliyun.com/api/mts/getlicense.html
func (client *Client) GetLicense(request *GetLicenseRequest)
 (response *GetLicenseResponse, err error) {
 response = CreateGetLicenseResponse()
 err = client.DoAction(request, response)
 return
}

// GetLicenseWithChan invokes the mts.GetLicense API asynchronously
// api document: https://help.aliyun.com/api/mts/getlicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) GetLicenseWithChan(request *GetLicenseRequest) (<-chan *GetLicenseResponse, <-chan
error) {
 responseChan := make(chan *GetLicenseResponse, 1)
 errChan := make(chan error, 1)

```
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.GetLicense(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// GetLicenseWithCallback invokes the mts.GetLicense API asynchronously
// api document: https://help.aliyun.com/api/mts/getlicense.html
//
 asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) GetLicenseWithCallback(request *GetLicenseRequest, callback func(response
*GetLicenseResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *GetLicenseResponse
  var err error
  defer close(result)
  response, err = client.GetLicense(request)
  callback(response, err)
  result <- 1
 })
 if err != nil {
  defer close(result)
  callback(nil, err)
  result <- 0
 }
 return result
}

// GetLicenseRequest is the request struct for api GetLicense
type GetLicenseRequest struct {
 *requests.RpcRequest
 ResourceOwnerId      string `position:"Query" name:"ResourceOwnerId"`
 Data                 string `position:"Query" name:"Data"`
 ResourceOwnerAccount string `position:"Query" name:"ResourceOwnerAccount"`
 OwnerAccount         string `position:"Query" name:"OwnerAccount"`
```

```
 Header              string `position:"Query" name:"Header"`
 OwnerId
            string `position:"Query" name:"OwnerId"`
 MediaId             string `position:"Query" name:"MediaId"`
 Type               string `position:"Query" name:"Type"`
 LicenseUrl          string `position:"Query" name:"LicenseUrl"`
}

// GetLicenseResponse is the response struct for api GetLicense
type GetLicenseResponse struct {
 *responses.BaseResponse
 RequestId string `json:"RequestId" xml:"RequestId"`
 License   string `json:"License" xml:"License"`
}

// CreateGetLicenseRequest creates a request to invoke GetLicense API
func CreateGetLicenseRequest() (request *GetLicenseRequest) {
 request = &GetLicenseRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("Mts", "2014-06-18", "GetLicense", "mts", "openAPI")
 return
}

// CreateGetLicenseResponse creates a response to parse from GetLicense response
func CreateGetLicenseResponse() (response *GetLicenseResponse) {
 response = &GetLicenseResponse{
  BaseResponse: &responses.BaseResponse{},
 }
 return
}
```

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```
import (
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
 "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// QueryLicenses invokes the linkface.QueryLicenses API synchronously
// api document: https://help.aliyun.com/api/linkface/querylicenses.html
func (client *Client) QueryLicenses(request
 *QueryLicensesRequest) (response *QueryLicensesResponse, err error) {
 response = CreateQueryLicensesResponse()
 err = client.DoAction(request, response)
 return
}

// QueryLicensesWithChan invokes the linkface.QueryLicenses API asynchronously
// api document: https://help.aliyun.com/api/linkface/querylicenses.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) QueryLicensesWithChan(request *QueryLicensesRequest) (<-chan *QueryLicensesResponse,
<-chan error) {
 responseChan := make(chan *QueryLicensesResponse, 1)
 errChan := make(chan error, 1)
 err := client.AddAsyncTask(func() {
  defer close(responseChan)
  defer close(errChan)
  response, err := client.QueryLicenses(request)
  if err != nil {
   errChan <- err
  } else {
   responseChan <- response
  }
 })
 if err != nil {
  errChan <- err
  close(responseChan)
  close(errChan)
 }
 return responseChan, errChan
}

// QueryLicensesWithCallback invokes the linkface.QueryLicenses
 API asynchronously
// api document: https://help.aliyun.com/api/linkface/querylicenses.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) QueryLicensesWithCallback(request *QueryLicensesRequest, callback func(response
*QueryLicensesResponse, err error)) <-chan int {
 result := make(chan int, 1)
 err := client.AddAsyncTask(func() {
  var response *QueryLicensesResponse
```

```
 var err error
 defer close(result)
 response, err = client.QueryLicenses(request)
 callback(response, err)
 result <- 1
 })
 if err != nil {
 defer close(result)
 callback(nil, err)
 result <- 0
 }
 return result
}

// QueryLicensesRequest is the request struct for api QueryLicenses
type QueryLicensesRequest struct {
 *requests.RpcRequest
 LicenseType requests.Integer `position:"Body" name:"LicenseType"`
 PageSize    requests.Integer `position:"Body" name:"PageSize"`
 CurrentPage requests.Integer `position:"Body" name:"CurrentPage"`
}

// QueryLicensesResponse
 is the response struct for api QueryLicenses
type QueryLicensesResponse struct {
 *responses.BaseResponse
 RequestId string     `json:"RequestId" xml:"RequestId"`
 Code      int        `json:"Code" xml:"Code"`
 Message   string     `json:"Message" xml:"Message"`
 PageCount int        `json:"PageCount" xml:"PageCount"`
 PageSize  int        `json:"PageSize" xml:"PageSize"`
 Page      int        `json:"Page" xml:"Page"`
 Total     int        `json:"Total" xml:"Total"`
 Success   bool       `json:"Success" xml:"Success"`
 Data      []DataItem `json:"Data" xml:"Data"`
}

// CreateQueryLicensesRequest creates a request to invoke QueryLicenses API
func CreateQueryLicensesRequest() (request *QueryLicensesRequest) {
 request = &QueryLicensesRequest{
  RpcRequest: &requests.RpcRequest{},
 }
 request.InitWithApiInfo("LinkFace", "2018-07-20", "QueryLicenses", "", "")
 return
}

// CreateQueryLicensesResponse creates a response to parse from QueryLicenses response
func CreateQueryLicensesResponse()
```

```
(response *QueryLicensesResponse) {
response = &QueryLicensesResponse{
 BaseResponse: &responses.BaseResponse{},
}
return
}
```

1.552 zap 1.9.0

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1.553 utils 0.0.0-20220210201930-3a6ce19ff2f9

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Found in path(s):
* /istack-commons-runtime-3-0-5-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, h
ttps://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses:="javax.activation,javax.xml.strea
m,org.xml.sax,org.xml.sax.helpers";version="3.0.5",com.sun.istack.log
ging;version="3.0.5",com.sun.istack.localization;version="3.0.5"
Bundle-Name:
istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:
27:24+0100
Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_112

Found in path(s):
* /istack-commons-runtime-3-0-5-jar/META-INF/MANIFEST.MF

1.555 google-go-cmp 0.5.8

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1.556 go-compute 1.6.1

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
```

```
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
 However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

//
 Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
 fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
```

```
 xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licenseCodesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}
```

```
//
 Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(), req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx,
 func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if
 err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
```

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
 (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient
```

```
 // The call options for this service.
 CallOptions
 *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
 (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

```
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party
 partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces
 any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint
 string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
```

```
 xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licensesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient:
 c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
```

```
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the
 client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build
 HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:
  resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header
= headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
 req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err
 != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
```

```
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client
and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
```

```
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:
  resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if
 pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, _ := url.Parse(c.endpoint)
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
```

```
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 //
Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}
```

```
 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize,
 pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy",
 req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
 return nil, e
 }
 return resp,
 nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 //
 Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
```

```
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err !=
 nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _
 = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
 // TODO:
 Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
 nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.557 x-net 0.0.0-20220607020251-c690dde0001d

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1.558 grpc-go 1.47.0

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1.559 x-xerrors 0.0.0-20220609144429-65e65417b02f

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1.560 x-sys 0.0.0-20220610221304-9f5ed59c137d

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1.561 tomcat 8.5.x-dev

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- javaee_web_services_1_2.xsd
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- javaee_web_services_1_3.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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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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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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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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(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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b) Accompany the
work with a written offer, valid for at
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the

recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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fits its criteria of freedom. The Lesser General
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain

special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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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Version 3, 29 June 2007

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means a major essential component
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@item
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@end enumerate

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1.568 python-certifi 2018.01.18

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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1.569 objx 0.4.0

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1.570 python-certifi 2019.06.16

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ca-bundle.crt -- Bundle of CA Root Certificates

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
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1.571 testify 1.7.4

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1.572 logfmt 0.5.1

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1.573 kubernetes-client 0.24.1

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1.574 gopsutil 3.22.4

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1.575 golang 1.18.3

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1.579 armon-go-metrics 0.3.3

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1.580 aws-smithy-go 1.11.3

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1.581 klauspost-compress 1.15.6

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1.586 x-sync 0.0.0-20220601150217-0de741cfad7f

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1.587 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.588 pierrec-lz4 4.1.14

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1.589 go-iam 0.3.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
```

```
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}
```

```
// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
 However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

//
 Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
```

```
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
 fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licenseCodesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
```

```
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

//
 Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx,
 func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
```

```
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
```

```
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if
err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

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package compute

import (

```
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
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 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
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 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
 (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
```

```
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions
 *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
 (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party
 partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces
 any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

```
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint
 string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licensesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient:
 c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
```

```
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the
 client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
baseUrl.RawQuery = params.Encode()

// Build
HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:
  resp,
  project: req.GetProject(),
 },
}
return op, nil
```

```
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header
 = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
 req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err
 != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:
  resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if
 pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
```

```
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

//
Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize,
pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy",
 req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
```

```
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp,
 nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
```

```
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
```

```
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 //
 Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err !=
 nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
// Copyright 2022 Google LLC
//
```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
```

```
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _
 = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO:
 Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
 nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.590 golang-jwt 4.4.2

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1.591 collector-pdata 0.54.0

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1.596 google-api-go-client 0.84.0

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1.597 x-time-rate 0.0.0-20220609170525-579cf78fd858

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1.598 bison 3.6.4

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Jackson JSON processor

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1.604 modernc.org-sqlite 1.17.3

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1.605 xdg-go-stringprep 1.0.3

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1.606 govmomi 0.28.0

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package license

import (
 "context"
 "flag"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
 *flags.ClientFlag
 *flags.OutputFlag

 feature string
}

func init() {
 cli.Register("license.ls", &ls{})
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag,
 ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)
```

```
 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m := license.NewManager(client)
 result, err := m.List(ctx)
 if err != nil {
  return err
 }

 if cmd.feature != "" {
  result = result.WithFeature(cmd.feature)
 }

 return cmd.WriteResult(licenseOutput(result))
}
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 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
 *flags.ClientFlag
 *flags.OutputFlag
 *flags.HostSystemFlag
 *flags.ClusterFlag

 name   string
 remove bool
}

func init() {
 cli.Register("license.assign", &assign{})
}

func (cmd *assign)
 Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
 cmd.HostSystemFlag.Register(ctx, f)

 cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
 cmd.ClusterFlag.Register(ctx, f)

 f.StringVar(&cmd.name, "name", "", "Display name")
 f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
```

```
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.HostSystemFlag.Process(ctx); err != nil {
  return err
 }
 return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
 return "KEY"
}

func (cmd *assign) Description() string {
 return `Assign licenses to HOST or CLUSTER.

Examples:
 govc license.assign $VCSA_LICENSE_KEY
  govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
 govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
 if f.NArg() != 1 {
  return flag.ErrHelp
 }

 key := f.Arg(0)

 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m, err := license.NewManager(client).AssignmentManager(ctx)
 if err != nil {
  return err
 }

 host, err := cmd.HostSystemIfSpecified()
 if err != nil {
  return err
 }

 var id string
```

```
 if host == nil {
  cluster, cerr := cmd.ClusterIfSpecified()
  if cerr != nil {
   return cerr
  }
  if cluster == nil {
   // Default to vCenter UUID
   id = client.ServiceContent.About.InstanceUuid
  } else {
   id = cluster.Reference().Value
  }
 } else {
  id = host.Reference().Value
 }

 if cmd.remove {
  return m.Remove(ctx, id)
 }

 info, err := m.Update(ctx, id, key, cmd.name)
 if err != nil {
  return err
 }

 return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}
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*/

package simulator

import (
 "context"
 "reflect"
```

```
 "testing"

 "github.com/vmware/govmomi"
 "github.com/vmware/govmomi/find"
 "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {
 ctx := context.Background()
 m := VPX()

 defer m.Remove()

 err := m.Create()
 if err != nil {
  t.Fatal(err)
 }

 s := m.Service.NewServer()
 defer s.Close()

 c, err := govmomi.NewClient(ctx, s.URL, true)
 if
 err != nil {
  t.Fatal(err)
 }

 lm := license.NewManager(c.Client)
 am, err := lm.AssignmentManager(ctx)
 if err != nil {
  t.Fatal(err)
 }

 la, err := am.QueryAssigned(ctx, "enoent")
 if err != nil {
  t.Fatal(err)
 }

 if len(la) != 0 {
  t.Errorf("unexpected license")
 }

 finder := find.NewFinder(c.Client, false)
 hosts, err := finder.HostSystemList(ctx, "/...")
 if err != nil {
  t.Fatal(err)
 }
```

```
 host := hosts[0].Reference().Value
 vcid := c.Client.ServiceContent.About.InstanceUuid

 for _, name := range []string{"", host, vcid} {
  la, err = am.QueryAssigned(ctx, name)
  if err != nil {
   t.Fatal(err)
  }

  if len(la) != 1 {
   t.Fatal("no licenses")
  }

  if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
   t.Fatal("invalid license")
  }
 }
}

func TestLicenseManagerESX(t *testing.T) {
 ctx := context.Background()
 m := ESX()

 defer m.Remove()

 err := m.Create()
 if err != nil {
  t.Fatal(err)
 }

 s := m.Service.NewServer()
 defer s.Close()

 c, err := govmomi.NewClient(ctx,
 s.URL, true)
 if err != nil {
  t.Fatal(err)
 }

 lm := license.NewManager(c.Client)
 _, err = lm.AssignmentManager(ctx)
 if err == nil {
  t.Fatal("expected error")
 }

 la, err := lm.List(ctx)
 if err != nil {
  t.Fatal(err)
```

```
 }

 if len(la) != 1 {
  t.Fatal("no licenses")
 }

 if !reflect.DeepEqual(la[0], EvalLicense) {
  t.Fatal("invalid license")
 }
}

func TestAddRemoveLicense(t *testing.T) {
 ctx := context.Background()
 m := ESX()

 defer m.Remove()

 err := m.Create()
 if err != nil {
  t.Fatal(err)
 }

 s := m.Service.NewServer()
 defer s.Close()

 c, err := govmomi.NewClient(ctx, s.URL, true)
 if err != nil {
  t.Fatal(err)
 }

 lm := license.NewManager(c.Client)
 key := "00000-00000-00000-00000-11111"
 labels := map[string]string{"key": "value"}

 info, err := lm.Add(ctx, key, labels)
 if err != nil {
  t.Fatal(err)
 }

 if info.LicenseKey != key {
  t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
 }

 if len(info.Labels) !=
 len(labels) {
  t.Fatalf("expect len(info.Labels) equal to %d; got %d",
   len(labels), len(info.Labels))
 }
```

```
 if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
  t.Fatalf("expect label to be {key:value}; got {%s:%s}",
   info.Labels[0].Key, info.Labels[0].Value)
 }

 la, err := lm.List(ctx)
 if err != nil {
  t.Fatal(err)
 }

 if len(la) != 2 {
  t.Fatal("no licenses")
 }

 if la[1].LicenseKey != key {
  t.Fatalf("expect info.LicenseKey equal to %q; got %q",
   key, la[1].LicenseKey)
 }

 if len(la[1].Labels) != len(labels) {
  t.Fatalf("expect len(info.Labels) equal to %d; got %d",
   len(labels), len(la[1].Labels))
 }

 if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
  t.Fatalf("expect label to be {key:value}; got {%s:%s}",
   la[1].Labels[0].Key, la[1].Labels[0].Value)
 }

 err = lm.Remove(ctx, key)
 if err != nil {
  t.Fatal(err)
 }

 la, err = lm.List(ctx)
 if err != nil {
  t.Fatal(err)
 }

 if len(la) != 1 {
  t.Fatal("no licenses")
 }
}
/*
```

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*/

```
package license

import (
 "context"
 "flag"
 "fmt"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/types"
)

type add struct {
 *flags.ClientFlag
 *flags.OutputFlag
}

func init() {
 cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx
 = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
```

```
 return err
 }
 return nil
}

func (cmd *add) Usage() string {
 return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m := license.NewManager(client)

 // From the vSphere 5.5 documentation:
 //
 //     To specify the edition type and any optional functions, use
 //     updateLicense for ESX Server and addLicense follow by
 //     LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
 //
 var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo,
error)
 switch t := client.ServiceContent.About.ApiType; t {
 case "HostAgent":
  addFunc
 = m.Update
 case "VirtualCenter":
  addFunc = m.Add
 default:
  return fmt.Errorf("unsupported ApiType: %s", t)
 }

 result := make(licenseOutput, 0)
 for _, v := range f.Args() {
  license, err := addFunc(ctx, v, nil)
  if err != nil {
   return err
  }

  result = append(result, license)
 }

 return cmd.WriteResult(licenseOutput(result))
}
```

```
#!/usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
 if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
   skip "requires evaluation license"
 fi
}

get_key() {
 jq ".[] | select(.LicenseKey == \"$1\")"
}

get_property() {
 jq -r ".Properties[] | select(.Key == \"$1\") | .Value"
}

get_label() {
 govc license.ls -json | jq -r ".[] | select(.LicenseKey == \"$1\") | .Labels[] | select(.Key == \"$2\") | .Value"
}

get_nlabel() {
 govc license.ls -json | jq ".[] | select(.LicenseKey == \"$1\") | .Labels[].Key" | wc -l
}

@test "license.add" {
 esx_env

 verify_evaluation

 run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
 assert_success

 # Expect to see an entry for both the first and the second key
 assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<${output} |
get_property diagnostic)"
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} |
get_property diagnostic)"
}

@test "license.remove" {
 esx_env

 verify_evaluation

 run govc license.remove -json 00000-00000-00000-00000-00001
```

```
 assert_success
}

@test "license.ls" {
 vcsim_env

 verify_evaluation

 run govc license.ls -json
 assert_success

 # Expect the test instance to run in evaluation mode
 assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<$output | jq -r ".Name")"
}

@test "license.decode" {
 esx_env

 verify_evaluation

 key=00000-00000-00000-00000-00000
 assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
 vcsim_env

 key=00000-00000-00000-00000-00000

 assert_equal 0 "$(get_nlabel $key)"
 assert_equal "" "$(get_label $key foo)"

 run govc license.label.set $key foo bar
 assert_success

 assert_equal 1 "$(get_nlabel $key)"
 assert_equal bar "$(get_label
 $key foo)"

 run govc license.label.set $key biz baz
 assert_success
 run govc license.label.set $key foo bar2
 assert_success

 assert_equal 2 "$(get_nlabel $key)"
 assert_equal bar2 "$(get_label $key foo)"

 run govc license.label.set $key foo ""
```

```
 assert_success

 assert_equal 1 "$(get_nlabel $key)"
 assert_equal "" "$(get_label $key foo)"
}
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package simulator

import (
 "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 (m *LicenseManager) init(r *Registry) {
 m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

 if
 r.IsVPX() {
  am := Map.Put(&LicenseAssignmentManager{}).Reference()
  m.LicenseAssignmentManager = &am
 }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
 body := &methods.AddLicenseBody{
  Res: &types.AddLicenseResponse{},
 }

 for _, license := range m.Licenses {
  if license.LicenseKey == req.LicenseKey {
   body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
   return body
  }
 }

 m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
  LicenseKey: req.LicenseKey,
  Labels:     req.Labels,
```

```
 })

 body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

 return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
 body := &methods.RemoveLicenseBody{
  Res: &types.RemoveLicenseResponse{},
 }

 for i, license := range m.Licenses {
  if req.LicenseKey == license.LicenseKey {
   m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
   return body
  }
 }
 return
 body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
 body := &methods.UpdateLicenseLabelBody{}

 for i := range m.Licenses {
  license := &m.Licenses[i]

  if req.LicenseKey != license.LicenseKey {
   continue
  }

  body.Res = new(types.UpdateLicenseLabelResponse)

  for j := range license.Labels {
   label := &license.Labels[j]

   if label.Key == req.LabelKey {
    if req.LabelValue == "" {
     license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
    } else {
     label.Value = req.LabelValue
    }
    return body
   }
  }

  license.Labels = append(license.Labels, types.KeyValue{
```

```
  Key:   req.LabelKey,
  Value: req.LabelValue,
 })

 return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
 mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
body := &methods.QueryAssignedLicensesBody{
 Res: &types.QueryAssignedLicensesResponse{},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
 if req.EntityId != Map.content().About.InstanceUuid {
  id := types.ManagedObjectReference{
   Type:  "HostSystem",
   Value: req.EntityId,
  }

  if Map.Get(id) == nil {
   return body
  }
 }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
 {
  EntityId:        req.EntityId,
  AssignedLicense: EvalLicense,
 },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
 info := EvalLicense
```

```
 info.LicenseKey = key
 info.Labels = labels

 return info
}
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*/

package license

import (
 "context"
 "flag"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/types"
)

type label struct {
 *flags.ClientFlag
}

func init() {
 cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet)
 {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)
}
```

```
func (cmd *label) Usage() string {
 return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {
 return `Set license labels.

Examples:
 govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
 govc license.label.set 00000-00000-00000-00000-00000 team ""  # remove label
 govc license.ls -json | jq '.[] | select(.Labels[].Key == "team") | .LicenseKey'`
}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m := license.NewManager(client)

 if f.NArg() != 3 {
  return flag.ErrHelp
 }

 req := types.UpdateLicenseLabel{
  This:       m.Reference(),
  LicenseKey: f.Arg(0),
  LabelKey:   f.Arg(1),
  LabelValue: f.Arg(2),
 }

 _, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
 return err
}
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```

```
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*/

package license

import (
 "context"
 "flag"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
)

type decode struct {
 *flags.ClientFlag
 *flags.OutputFlag

 feature string
}

func init() {
 cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx,
 f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 return nil
}

func (cmd *decode) Usage() string {
 return "KEY..."
```

```
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 var result license.InfoList
 m := license.NewManager(client)
 for _, v := range f.Args() {
  license, err := m.Decode(ctx, v)
  if err != nil {
   return err
  }

  result = append(result, license)
 }

 if cmd.feature != "" {
  result = result.WithFeature(cmd.feature)
 }

 return cmd.WriteResult(licenseOutput(result))
}
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*/

package license

import (
 "context"
 "strconv"
 "strings"
```

```
 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/mo"
 "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
 object.Common
}

func NewManager(c *vim25.Client) *Manager {
 m := Manager{
  object.NewCommon(c, *c.ServiceContent.LicenseManager),
 }

 return
 &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
 var r []types.KeyValue
 for k, v := range m {
  r = append(r, types.KeyValue{Key: k, Value: v})
 }
 return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
 req := types.AddLicense{
  This:       m.Reference(),
  LicenseKey: key,
  Labels:     mapToKeyValueSlice(labels),
 }

 res, err := methods.AddLicense(ctx, m.Client(), &req)
 if err != nil {
  return types.LicenseManagerLicenseInfo{}, err
 }

 return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
 req := types.DecodeLicense{
  This:       m.Reference(),
  LicenseKey: key,
```

```
 }

 res, err := methods.DecodeLicense(ctx, m.Client(), &req)
 if err != nil {
  return types.LicenseManagerLicenseInfo{}, err
 }

 return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
 req := types.RemoveLicense{
  This:
      m.Reference(),
  LicenseKey: key,
 }

 _, err := methods.RemoveLicense(ctx, m.Client(), &req)
 return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
 req := types.UpdateLicense{
  This:       m.Reference(),
  LicenseKey: key,
  Labels:     mapToKeyValueSlice(labels),
 }

 res, err := methods.UpdateLicense(ctx, m.Client(), &req)
 if err != nil {
  return types.LicenseManagerLicenseInfo{}, err
 }

 return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
 var mlm mo.LicenseManager

 err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
 if err != nil {
  return nil, err
 }

 return InfoList(mlm.Licenses), nil
}
```

```
func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
 var mlm mo.LicenseManager

 err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
 if err != nil
 {
  return nil, err
 }

 if mlm.LicenseAssignmentManager == nil {
  return nil, object.ErrNotSupported
 }

 am := AssignmentManager{
  object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
 }

 return &am, nil
}

type licenseFeature struct {
 name  string
 level int
}

func parseLicenseFeature(feature string) *licenseFeature {
 lf := new(licenseFeature)

 f := strings.Split(feature, ":")

 lf.name = f[0]

 if len(f) > 1 {
  var err error
  lf.level, err = strconv.Atoi(f[1])
  if err != nil {
   lf.name = feature
  }
 }

 return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
 feature := parseLicenseFeature(key)

 for _, p := range license.Properties {
  if p.Key != "feature" {
```

```
  continue
 }

 kv, ok := p.Value.(types.KeyValue)

 if !ok {
  continue
 }

 lf := parseLicenseFeature(kv.Key)

 if lf.name == feature.name && lf.level >= feature.level {
  return true
 }
}

 return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type
 InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
 var result InfoList

 for _, license := range l {
  if HasFeature(license, key) {
   result = append(result, license)
  }
 }

 return result
}
```

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*/

package license

import (
 "context"
 "flag"
 "fmt"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
)

type remove struct {
 *flags.ClientFlag
 *flags.OutputFlag
}

func init() {
 cli.Register("license.remove", &remove{})
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx,
 f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 return nil
}
```

```
func (cmd *remove) Usage() string {
 return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m := license.NewManager(client)
 for _, v := range f.Args() {
  err = m.Remove(ctx, v)
  if err != nil {
   return err
  }
 }

 list, err := m.List(ctx)
 if err != nil {
  return err
 }

 for _, v := range f.Args() {
  for _, l := range list {
   if v == l.LicenseKey {
    return fmt.Errorf("cannot remove license %q", v)
   }
  }
 }

 return nil
}
/*
```

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```
*/
```

```
package license

import (
 "context"
 "flag"
 "fmt"
 "io"
 "os"
 "text/tabwriter"

 "github.com/vmware/govmomi/govc/cli"
 "github.com/vmware/govmomi/govc/flags"
 "github.com/vmware/govmomi/license"
 "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {
 *flags.ClientFlag
 *flags.OutputFlag

 id string
}

func init() {
 cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx
 context.Context, f *flag.FlagSet) {
 cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
 cmd.ClientFlag.Register(ctx, f)

 cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
 cmd.OutputFlag.Register(ctx, f)

 f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
 if err := cmd.ClientFlag.Process(ctx); err != nil {
  return err
 }
 if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
 }
 return nil
}
```

```
func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
 client, err := cmd.Client()
 if err != nil {
  return err
 }

 m, err := license.NewManager(client).AssignmentManager(ctx)
 if err != nil {
  return err
 }

 assigned, err := m.QueryAssigned(ctx, cmd.id)
 if err != nil {
  return err
 }

 return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
 tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ',
 0)
 fmt.Fprintf(tw, "Id:\tScope:\tName:\tLicense:\n")
 for _, v := range res {
  fmt.Fprintf(tw, "%s\t", v.EntityId)
  fmt.Fprintf(tw, "%s\t", v.Scope)
  fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
  fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
  fmt.Fprintf(tw, "\n")
 }
 return tw.Flush()
}
```

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*/
```

```
package license

import (
 "fmt"
 "io"
 "os"
 "text/tabwriter"

 "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
 tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
 fmt.Fprintf(tw, "Key:\tEdition:\tUsed:\tTotal:\n")
 for _, v := range res {
  fmt.Fprintf(tw, "%s\t", v.LicenseKey)
  fmt.Fprintf(tw, "%s\t",
 v.EditionKey)
  fmt.Fprintf(tw, "%d\t", v.Used)
  fmt.Fprintf(tw, "%d\t", v.Total)
  fmt.Fprintf(tw, "\n")
 }
 return tw.Flush()
}
/*
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*/

package license

import (
 "context"
```

```
 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
 object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string)
([]types.LicenseAssignmentManagerLicenseAssignment, error) {
 req := types.QueryAssignedLicenses{
  This:     m.Reference(),
  EntityId:
 id,
 }

 res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
 if err != nil {
  return nil, err
 }

 return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
 req := types.RemoveAssignedLicense{
  This:     m.Reference(),
  EntityId: id,
 }

 _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

 return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string)
(*types.LicenseManagerLicenseInfo, error) {
 req := types.UpdateAssignedLicense{
  This:             m.Reference(),
  Entity:           id,
  LicenseKey:       key,
  EntityDisplayName: name,
 }

 res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
 if err != nil {
  return nil, err
```

```
}

return &res.Returnval, nil
}
```

1.607 riemann-riemann-go-client 0.5.1-0.20211206220514-f58f10cdce16

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1.608 dynatrace-oss-dynatrace-metric-utils-go 0.5.0

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1.609 go-monitoring 1.5.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
```

```
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
est.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
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```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
```

```
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
 However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

//
 Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
```

```
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
 fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licenseCodesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
```

```
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

//
 Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx,
 func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if
err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

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```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
```

```
 (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions
 *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
```

creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces
any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint
 string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licensesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC
```

```
 return &LicensesClient{internalClient:
 c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the
 client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
```

```
params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build
HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:      c.operationClient,
```

```
  proto:
  resp,
  project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header
 = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
 req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err
 != nil {
   return err
```

```
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
 return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:      c.operationClient,
  proto:
  resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if
```

```
pageToken != "" {
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 //
Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize,
pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp,
nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
```

```
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
```

```
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 //
 Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err !=
 nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
```

```
 b := it.items
 it.items = nil
 return b
}
// Copyright 2022 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _
 = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
 // TODO:
 Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
```

```
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
 nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
```

```
if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.610 azure-azure-kusto-go 0.7.0

1.610.1 Available under license :

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1.611 go-pubsub 1.23.0

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
```

```
 GetIamPolicy:      []gax.CallOption{},
 Insert:            []gax.CallOption{},
 List:              []gax.CallOption{},
 SetIamPolicy:      []gax.CallOption{},
 TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
 is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
 Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method
```

```
 to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
```

```
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
```

```
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
 *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx,
 c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return
nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
```

```
 }, opts...)
 if
 e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")
```

```
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer
httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
```

```
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  params.Add("$alt", "json;enum-encoding=int")
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if
 req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
```

```
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if
 err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
```

```
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers :=
 buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from
 client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken
 is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
```

```
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:               []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
```

```
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
```

```
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()
```

```
 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
```

```
req.GetLicenseCode())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != ""
  {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
```

```
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
```

```
 _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
```

```
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
```

```
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.612 cloud-google-com-go 0.102.1

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
```

```
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
```

```
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
```

```
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts :=
 defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax",
 gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
```

```
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil,
 err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(), req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err
 := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl,
 err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
// Copyright 2022 Google LLC
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
```

```
 Insert:           []gax.CallOption{},
 List:             []gax.CallOption{},
 SetIamPolicy:     []gax.CallOption{},
 TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

//
 LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
```

```
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
 API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party
 partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or
```

```
 windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(),
 opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
```

```
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
```

```
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is
 intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return
 op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
```

```
Caution This resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
```

```
= append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:
      c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string,
 error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess",
 fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response
= resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
```

```
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if
 err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST",
 baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
```

```
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
 return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context,
 settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
```

```
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 //
 Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err !=
 nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
```

```
 return b
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
est.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

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```
package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
```

```
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _
 = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO:
 Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
 nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.613 wavefront-sdk-go 0.9.11

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1.614 rabbitmq-amqp091-go 1.3.4

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1.615 apcupsd 0.0.0-20220319200143-473c7b5f3c6a

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Sun, 23 May 1999 20:47:12 +0200.

Additional changes made by root <fgp@phlo.org> March 2001

More changes made by Gordon Morehouse <nphyre@evernex.com> April 2001

This package is now maintained by Martin Mitchell <martin@debian.org>.

It was downloaded from http://ftp.oasi.gpa.it/pub/apcupsd/stable.
An alternative download site is http://www.sibbald.com/apcupsd.

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1.616 google-cloud-go 0.102.1

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
```

```
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
```

```
}

//
 Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
```

```
 if err != nil {
  return nil, err
 }

 callOpts :=
 defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax",
 gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
```

```
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil,
 err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(), req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err
 := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl,
 err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
```

```
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

//
 LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
 API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
 partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or
 windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
```

```
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(),
 opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }
```

```
 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
```

```
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is
 intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
```

```
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return
op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
 = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:
       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-

cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string,
 error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess",
 fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response
= resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
```

```
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if
 err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST",
 baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context,
 settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
```

```
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 //
 Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err !=
 nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
// Copyright 2022 Google LLC
//
```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
```

```
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
est.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

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package compute_test

import (
 "context"

```
 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _
 = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO:
 Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
```

```
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
 nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.617 scram 1.1.1

1.617.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
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1.618 modernc.org-libc 1.16.7

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1.629 html5lib 1.0.1

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1.630 python-certifi 2020.04.05.1

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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can be directly used with curl / libcurl / php_curl, or with
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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.631 packaging 20.3

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1.632 idna 12.1.0

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1.633 distlib 0.2.9.post0

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

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2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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2.5.1	2.5	2007	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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==========

Distutils2 Contributors

==========

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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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1.634 aws-aws-sdk-go-v2 1.2.0

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1.635 aws-aws-sdk-go-v2-service-cloudwatch 1.7.0

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```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
```

```
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
```

```
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string
```

```
 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {
```

```
 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
```

```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
```

```
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
```

```
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
```

```
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
```

```
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name
 (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
```

```
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string
```

```
 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
```

}
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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
```

```
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.636 aws-aws-sdk-go-v2-service-s3 1.16.0

1.636.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter
```

```
 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
```

```
 SigningName:   "license-manager",
 OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
```

```
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed
    []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
```

```
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
```

```
        with:
          repository: nexB/scancode-toolkit
          path: scancode-toolkit
          fetch-depth: 1
      - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
        with:
          python-version: ${{ matrix.python-version }}
      # ScanCode
      - name: Self-configure scancode
        working-directory: ./scancode-toolkit
        run: ./scancode --help
      - name: Run Scan code on target
        run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
      - name: Run Scan code on pr ref
        run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
      # compare
      - name: License test
        run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
```

```
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {
```

```
 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:        region,
 ServiceID:     ServiceID,
 SigningName:   "grafana",
 OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
```

```
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
```

```
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string
```

```
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
```

```
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.637 aws-aws-sdk-go-v2-feature-s3-manager 1.5.3

1.637.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
```

```
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
```

```
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]
```

```
  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement
```

```
 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
```

```
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
```

```
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {
```

```
// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string
```

```
 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
```

```
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
```

```
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.638 aws-aws-sdk-go-v2 1.4.0

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```
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 //
 This member is required.
 SourceVersion *string
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if
err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
```

```
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil
 {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * KeyFingerprint
 //
 //
```

```
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
```

```
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata
 middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack);
err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:
       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
addOperationCreateLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
```

```
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err
 != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {
```

```
 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * KeyFingerprint
 //
 // * Issuer
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
```

```
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

//
Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string
```

```
 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
```

```
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err =
addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opCheckInLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
```

1.639 aws-aws-sdk-go-v2-service-internal-s3shared 1.7.1

1.639.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
```

```
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
```

```
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]
```

```
  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement
```

```
 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
```

```
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
```

```
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {
```

```
// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string
```

```
 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
```

```
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

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```

```
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
```

```
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.640 nats.go 1.16.0

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1.641 gax-go 2.4.0

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.645 protobuf-java 2.2.0

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1.646 bcel 2.7.2

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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;
```

```
    /**
     * Reference to the Parser class.
     */
    private Parser _parser;
    private XSLTC  _xsltc;

    /**
     * String representation of the expression being parsed.
     */
    private String _expression;

    /**
     * Line number where this expression/pattern was declared.
     */
    private int _lineNumber = 0;

     /**
     * Reference to the symbol table.
     */
    public SymbolTable _symbolTable;

    public XPathParser(Parser parser) {
        _parser = parser;
    _xsltc = parser.getXSLTC();
        _symbolTable = parser.getSymbolTable();
    }

    public int getLineNumber() {
        return _lineNumber;
    }

    public QName getQNameIgnoreDefaultNs(String name) {
          return _parser.getQNameIgnoreDefaultNs(name);
    }

    public QName getQName(String namespace, String prefix, String localname) {
        return _parser.getQName(namespace, prefix, localname);
    }

    public void setMultiDocument(boolean flag) {
          _xsltc.setMultiDocument(flag);
    }

    public void setCallsNodeset(boolean flag) {
          _xsltc.setCallsNodeset(flag);
    }
```

```
  public void setHasIdCall(boolean flag) {
       _xsltc.setHasIdCall(flag);
  }


  /**
   * This method is similar to findNodeType(int, Object) except that it
   * creates a StepPattern instead of
just returning a node type. It also
   * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
   * patterns are expanded as "*[namespace-uri() = 'uri']" and
   * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
   * simplifies the grouping of patterns in the Mode class. For this
   * expansion to be correct, the priority of the pattern/template must be
   * set to -0.25 (when no other predicates are present).
   */
  public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
      }
      else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();

    return new StepPattern(axis, nodeType, predicates);
      }
      else {
    QName name = (QName)test;

boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
 nodeType = (name.toString().equals("*")) ? -1
  : _xsltc.registerNamespacePrefix(name);;
         }
    else {
 final String uri = name.getNamespace();
 final String local = name.getLocalPart();
 final QName namespace_uri =
     _parser.getQNameIgnoreDefaultNs("namespace-uri");

 // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
 if (uri != null && (local.equals("*") || local.equals("@*"))) {
     if (predicates == null) {
```

```
 predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
 new Predicate(
     new EqualityExpr(Operators.EQ,
  new NamespaceUriCall(namespace_uri),
  new LiteralExpr(uri))));
 }

 if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
 : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
 }
 else
{
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
 : _xsltc.registerElement(name);
 }
   }

   final StepPattern result = new StepPattern(axis, nodeType, predicates);

   // Set priority for case prefix:* and prefix:@* (no predicates)
   if (setPriority) {
 result.setPriority(-0.25);
   }

   return result;
}
  }

  public int findNodeType(int axis, Object test) {
if (test == null) {  // *
   return (axis == Axis.ATTRIBUTE) ?
 NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
     }
     else if (test instanceof Integer) {
        return ((Integer)test).intValue();
     }
     else {
```

```
   QName name = (QName)test;

   if (axis == Axis.NAMESPACE) {
 return (name.toString().equals("*")) ? -1
    : _xsltc.registerNamespacePrefix(name);
        }

   if (name.getNamespace() == null) {
 final String local = name.getLocalPart();

 if (local.equals("*")) {
    return
(axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
 : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
 }
   }

   return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
     }
 }

 /**
  * Parse the expression passed to the current scanner. If this
  * expression contains references to local variables and it will be
  * compiled in an external module (not in the main class) request
  * the current template to create a new variable stack frame.
  *
  * @param lineNumber Line where the current expression is defined.
  * @param external   Set to <tt>true</tt> if this expression is
  *                   compiled in a separate module.
  *
  */
 public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
   _expression = expression;
   _lineNumber = lineNumber;
   return super.parse();
    }
    catch (IllegalCharException
e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
```

```
      return null;
    }

    /**
     * Lookup a variable or parameter in the symbol table given its name.
     *
     * @param name Name of the symbol being looked up.
     */
    final SyntaxTreeNode lookupName(QName name) {
      // Is it a local var or param ?
      final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
        return(result);
      else
     return(_symbolTable.lookupName(name));
    }

    public final void addError(ErrorMsg error) {
_parser.reportError(Constants.ERROR, error);
    }

    public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
     _expression);
_parser.reportError(Constants.FATAL, err);
    }

    public void report_fatal_error(String
message, Object info) {
      // empty
    }

    public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}
    }

    /**
```

```
    * Returns true if the axis applies to elements only. The axes
    * child, attribute, namespace, descendant result in non-empty
    * nodesets only if the context node is of type element.
    */
   public boolean isElementAxis(int axis) {
  return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
   axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
    }
:}

terminal SLASH, DOT, LBRACK,
 RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression
 RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;
```

```
non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel
 ::= PATTERN Pattern:pattern
        {: RESULT = pattern; :}

        | EXPRESSION Expr:expr
        {: RESULT = expr; :};

/* --------------------------- Patterns ---------------------------------- */

Pattern ::= LocationPathPattern:lpp
        {: RESULT = lpp; :}

        | LocationPathPattern:lpp VBAR Pattern:p
        {: RESULT = new AlternativePattern(lpp, p);  :};

LocationPathPattern ::= SLASH
        {: RESULT = new AbsolutePathPattern(null); :}

        | SLASH RelativePathPattern:rpp
        {: RESULT = new AbsolutePathPattern(rpp); :}

        | IdKeyPattern:ikp
        {: RESULT = ikp; :}

        | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(ikp, rpp); :}

        | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
```

```
        {: RESULT = new AncestorPattern(ikp, rpp); :}

        | DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(rpp); :}


    | RelativePathPattern:rpp
        {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
        {: RESULT = new IdPattern(l);
          parser.setHasIdCall(true);
        :}

        | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
        {: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
        {: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
        {: RESULT = sp; :}

        | StepPattern:sp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(sp, rpp); :}

        | StepPattern:sp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
        :}

        | NodeTestPattern:nt Predicates:pp
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
         :}

        | ProcessingInstructionPattern:pip
        {: RESULT = pip; :}

    | ProcessingInstructionPattern:pip Predicates:pp
        {: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

        | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, null);
```

```
        :}

    | ChildOrAttributeAxisSpecifier:axis
   NodeTestPattern:nt Predicates:pp
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
        :}

        | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
        {:
      RESULT = pip;  // TODO: report error if axis is attribute
    :}

    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
  Predicates:pp
        {:
      // TODO: report error if axis is attribute
      RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};

NodeTestPattern
 ::= NameTestPattern:nt
        {: RESULT = nt; :}

        | NODE
        {: RESULT = new Integer(NodeTest.ANODE); :}

        | TEXT
        {: RESULT = new Integer(NodeTest.TEXT); :}

        | COMMENT
        {: RESULT = new Integer(NodeTest.COMMENT); :}

        | PI
        {: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
        {: RESULT = null; :}

        | QName:qn
        {: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN
        {: RESULT = new Integer(Axis.ATTRIBUTE); :}

        | CHILD DCOLON
        {: RESULT = new Integer(Axis.CHILD); :}
```

```
        | ATTRIBUTE DCOLON
        {: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
        {:
  Vector temp = new Vector();
  temp.addElement(p);
  RESULT = temp;
        :}

        | Predicate:p Predicates:pp
        {: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::=
  LBRACK Expr:e RBRACK
    {:
  RESULT = new Predicate(e);
    :};

/* --------------------------- Expressions -------------------------------- */

Expr ::= OrExpr:ex
      {: RESULT = ex; :};

OrExpr ::= AndExpr:ae
      {: RESULT = ae; :}

      | OrExpr:oe OR AndExpr:ae
      {: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
      {: RESULT = e; :}

      | AndExpr:ae AND EqualityExpr:ee
      {: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
      {: RESULT = re; :}

      | EqualityExpr:ee EQ RelationalExpr:re
      {: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

      | EqualityExpr:ee NE RelationalExpr:re
      {: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
      {: RESULT = ae; :}
```

```
      | RelationalExpr:re LT AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

      | RelationalExpr:re
 GT AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

      | RelationalExpr:re LE AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

      | RelationalExpr:re GE AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
      {: RESULT = me; :}

      | AdditiveExpr:ae PLUS  MultiplicativeExpr:me
      {: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}

      | AdditiveExpr:ae MINUS MultiplicativeExpr:me
      {: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
      {: RESULT = ue; :}

      | MultiplicativeExpr:me MULT UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

      | MultiplicativeExpr:me DIV UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

      | MultiplicativeExpr:me MOD UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.MOD,
 me, ue); :};

UnaryExpr ::= UnionExpr:ue
      {: RESULT = ue; :}

      | MINUS UnaryExpr:ue
      {: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
      {: RESULT = pe; :}

      | PathExpr:pe VBAR UnionExpr:rest
      {: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
```

```
      {: RESULT = lp; :}

      | FilterExpr:fexp
      {: RESULT = fexp; :}

      | FilterExpr:fexp SLASH RelativeLocationPath:rlp
      {: RESULT = new FilterParentPath(fexp, rlp); :}

      | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
      {:
        //
   // Expand '//' into '/descendant-or-self::node()/' or
   // into /descendant-or-self::*/
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
       parser.isElementAxis(((Step) rlp).getAxis()))
   {
       nodeType = DTM.ELEMENT_NODE;
   }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        FilterParentPath fpp = new
 FilterParentPath(fexp, step);
        fpp = new FilterParentPath(fpp, rlp);
        if (fexp instanceof KeyCall == false) {
           fpp.setDescendantAxis();
   }
        RESULT = fpp;
      :};

LocationPath ::= RelativeLocationPath:rlp
      {: RESULT = rlp; :}

      | AbsoluteLocationPath:alp
      {: RESULT = alp; :};

RelativeLocationPath ::= Step:step
      {: RESULT = step; :}

      | RelativeLocationPath:rlp SLASH Step:step
      {:
      if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
           RESULT = step;       // Remove './' from the middle
      }
      else if (((Step) step).isAbbreviatedDot()) {
           RESULT = rlp;        // Remove '/.' from the end
      }
      else {
```

```
          RESULT =
            new ParentLocationPath((RelativeLocationPath) rlp, step);
        }
      :}

      | AbbreviatedRelativeLocationPath:arlp
      {: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
       {: RESULT = new AbsoluteLocationPath(); :}

      | SLASH RelativeLocationPath:rlp
      {: RESULT = new AbsoluteLocationPath(rlp); :}

      | AbbreviatedAbsoluteLocationPath:aalp
      {: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
      {:
    final Step right  = (Step)step;
          final int  axis   = right.getAxis();
          final int  type   = right.getNodeType();
          final Vector predicates = right.getPredicates();

          if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
            // Compress './/child:E' into 'descendant::E' - if possible
            if (predicates == null) {
              right.setAxis(Axis.DESCENDANT);
              if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            RESULT = right;
              }
              else {
                // Expand 'rlp//child::E' into 'rlp/descendant::E'

       RelativeLocationPath left = (RelativeLocationPath)rlp;
             RESULT = new ParentLocationPath(left, right);
              }
            }
            else {
              // Expand './/step' -> 'descendant-or-self::*/step'
              if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
                Step left = new Step(Axis.DESCENDANTORSELF,
      DTM.ELEMENT_NODE, null);
                RESULT = new ParentLocationPath(left, right);
              }
              else {
                // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
                RelativeLocationPath left = (RelativeLocationPath)rlp;
```

```
                Step mid = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
                ParentLocationPath ppl = new ParentLocationPath(mid, right);
                RESULT = new ParentLocationPath(left, ppl);
              }
            }

        }
        else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
          // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
          RelativeLocationPath left = (RelativeLocationPath)rlp;
          Step middle = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
          ParentLocationPath ppl = new ParentLocationPath(middle, right);
          RESULT = new ParentLocationPath(left, ppl);
    }
    else {
      // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
          RelativeLocationPath left = (RelativeLocationPath)rlp;
      Step middle = new Step(Axis.DESCENDANTORSELF,
     DOM.NO_TYPE, null);
          ParentLocationPath ppl = new ParentLocationPath(middle, right);
      RESULT = new ParentLocationPath(left, ppl);
    }
      :};


AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
      {:
        //
    // Expand '//' into '/descendant-or-self::node()/'
 or
    // into /descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
       parser.isElementAxis(((Step) rlp).getAxis()))
    {
       nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step,
    (RelativeLocationPath) rlp));
 :};

Step ::= NodeTest:ntest
      {:
        if (ntest instanceof Step) {
```

```
            RESULT = (Step)ntest;
          }
          else {
 RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest),
                    null);
          }
      :}

      | NodeTest:ntest Predicates:pp
      {:
          if (ntest instanceof Step) {
              Step step = (Step)ntest;
              step.addPredicates(pp);
              RESULT = (Step)ntest;
          }
          else {
              RESULT = new Step(Axis.CHILD,

                  parser.findNodeType(Axis.CHILD, ntest), pp);
          }
      :}

      | AxisSpecifier:axis NodeTest:ntest Predicates:pp
      {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                    pp);
      :}

      | AxisSpecifier:axis NodeTest:ntest
      {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                    null);
      :}

      | AbbreviatedStep:abbrev
      {: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
      {: RESULT = an; :}

      | ATSIGN
      {: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::=    ANCESTOR
      {: RESULT = new Integer(Axis.ANCESTOR); :}

      | ANCESTORORSELF
```

```
        {: RESULT = new Integer(Axis.ANCESTORORSELF); :}

        | ATTRIBUTE
        {: RESULT = new Integer(Axis.ATTRIBUTE); :}

        | CHILD
        {: RESULT =
    new Integer(Axis.CHILD); :}

        | DESCENDANT
        {: RESULT = new Integer(Axis.DESCENDANT); :}

        | DESCENDANTORSELF
        {: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

        | FOLLOWING
        {: RESULT = new Integer(Axis.FOLLOWING); :}

        | FOLLOWINGSIBLING
        {: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

        | NAMESPACE
        {: RESULT = new Integer(Axis.NAMESPACE); :}

        | PARENT
        {: RESULT = new Integer(Axis.PARENT); :}

        | PRECEDING
        {: RESULT = new Integer(Axis.PRECEDING); :}

        | PRECEDINGSIBLING
        {: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

        | SELF
        {: RESULT = new Integer(Axis.SELF); :};

    AbbreviatedStep ::= DOT
        {: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

        | DDOT
        {: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

    FilterExpr ::=  PrimaryExpr:primary
        {: RESULT = primary; :}

        | PrimaryExpr:primary Predicates:pp
         {: RESULT = new FilterExpr(primary, pp); :};
```

```
PrimaryExpr ::= VariableReference:vr
      {: RESULT = vr; :}

      | LPAREN Expr:ex RPAREN
      {: RESULT = ex; :}

| Literal:string
{:
/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
      : new LiteralExpr(string, namespace);
:}

      | INT:num
      {:
   long value = num.longValue();
   if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
  RESULT = new RealExpr(value);
   }
   else {
            if (num.doubleValue() == -0)

             RESULT = new RealExpr(num.doubleValue());
            else if (num.intValue() == 0)
               RESULT = new IntExpr(num.intValue());
            else if (num.doubleValue() == 0.0)
               RESULT = new RealExpr(num.doubleValue());
            else
               RESULT = new IntExpr(num.intValue());
   }
      :}

      | REAL:num
      {: RESULT = new RealExpr(num.doubleValue()); :}

      | FunctionCall:fc
```

```
    {: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
    {:
      // An empty qname prefix for a variable or parameter reference
      // should map to the null namespace and not the default URI.
      SyntaxTreeNode node = parser.lookupName(varName);

      if (node != null) {
        if (node instanceof Variable) {
          RESULT = new VariableRef((Variable)node);
        }
        else if (node instanceof Param) {
          RESULT
 = new ParameterRef((Param)node);
        }
        else {
          RESULT = new UnresolvedRef(varName);
        }
      }

      if (node == null) {
        RESULT = new UnresolvedRef(varName);
      }
    :};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
    {:

     if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
      RESULT = new CurrentCall(fname);
  }
     else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
      RESULT = new NumberCall(fname, parser.EmptyArgs);
  }
     else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
      RESULT = new StringCall(fname, parser.EmptyArgs);
  }
     else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
      RESULT = new ConcatCall(fname, parser.EmptyArgs);
  }
     else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
      RESULT = new
 BooleanExpr(true);
  }
     else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
      RESULT = new BooleanExpr(false);
  }
```

```
      else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
    }
      else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
    }
      else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
    }
      else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
        RESULT = new PositionCall(fname);
    }
      else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
        RESULT = new LastCall(fname);
    }
      else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname);
    }
      else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname))
  {
        RESULT = new NamespaceUriCall(fname);
    }
      else {
        RESULT = new FunctionCall(fname, parser.EmptyArgs);
    }
     :}

     | FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
     {:
       if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
     parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
        RESULT = new BooleanCall(fname, argl);
    }
      else if
  (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname, argl);
```

```
    }
        else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
          RESULT = new GenerateIdCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
          RESULT = new NotCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
          RESULT = new FormatNumberCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
          RESULT = new UnparsedEntityUriCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
          RESULT = new KeyCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
          RESULT = new KeyCall(fname, argl);
          parser.setHasIdCall(true);
    }
        else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
    {
          RESULT = new CeilingCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
          RESULT = new RoundCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
          RESULT = new FloorCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
          RESULT = new ContainsCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
          RESULT = new StringLengthCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
          RESULT = new StartsWithCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
          RESULT = new FunctionAvailableCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
    {
          RESULT = new ElementAvailableCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
          RESULT = new LocalNameCall(fname, argl);
```

```
  }
      else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
        RESULT = new LangCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
        RESULT = new NamespaceUriCall(fname, argl);
  }
      else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
        RESULT = new CastCall(fname, argl);
  }
  // Special case for extension function nodeset()
      else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
        RESULT = new FunctionCall(fname, argl);
  }
      else {
        RESULT = new FunctionCall(fname, argl);
  }
  :};

NonemptyArgumentList
 ::= Argument:arg
      {:
         Vector temp = new Vector();
         temp.addElement(arg);
         RESULT = temp;
      :}

      | Argument:arg COMMA NonemptyArgumentList:argl
      {: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
      {:
    RESULT = fname;
 :};

VariableName ::= QName:vname
      {:
    RESULT = vname;
 :};

Argument ::= Expr:ex
      {: RESULT = ex; :};

NodeTest ::= NameTest:nt
      {: RESULT = nt; :}

      | NODE
```

```
    {: RESULT = new Integer(NodeTest.ANODE); :}

    | TEXT
    {: RESULT = new Integer(NodeTest.TEXT); :}

    | COMMENT
    {: RESULT = new Integer(NodeTest.COMMENT); :}

    | PIPARAM LPAREN Literal:l RPAREN
    {:
      QName name = parser.getQNameIgnoreDefaultNs("name");
      Expression exp = new EqualityExpr(Operators.EQ,
                                new NameCall(name),

           new LiteralExpr(l));
      Vector predicates = new Vector();
      predicates.addElement(new Predicate(exp));
      RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    :}

    | PI
    {: RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
        {: RESULT = null; :}

        | QName:qn
        {: RESULT = qn; :};

QName ::= QNAME:qname
    {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

 | DIV
    {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
    {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

    | KEY
    {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

    | ANCESTOR
    {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

    | ANCESTORORSELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

    | ATTRIBUTE
```

```
    {: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

    | CHILD
    {:
RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

    | DESCENDANT
    {: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

    | DESCENDANTORSELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

    | FOLLOWING
    {: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

    | FOLLOWINGSIBLING
    {: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

    | NAMESPACE
    {: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

    | PARENT
    {: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

    | PRECEDING
    {: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

    | PRECEDINGSIBLING
    {: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

    | SELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

    | ID
    {: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
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Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties

* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * Major version number.
  * Version number. This changes only when there is a
  *         significant, externally apparent
 enhancement from
  *         the previous release. 'n' represents the n'th
  *         version.
  *
  *         Clients should carefully consider the implications
  *         of new versions as external interfaces and behaviour
  *         may have changed.
  */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
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```
/*
```

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
* This is a special exception that is used to stop parsing when
* search for an element.  For instance, when searching
 for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
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* distributed under the License is distributed on an "AS IS" BASIS,
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* limitations under the License.
*/
// is found, then throw a special exception in order to terminate
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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* limitations under the License.
*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
```

```
package org.apache.xml.serializer;

/**
* Administrative class
 to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/
public final class Version
{

 /**
  * Get the basic version string for the current Serializer.
  * Version String formatted like
  * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments,
 unused.
  */
 public static void main(String argv[])
 {
  System.out.println(getVersion());
 }

 /**
  * Name of product: Serializer.
  */
 public static String getProduct()
 {
  return "Serializer";
```

```
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *          significant, externally apparent enhancement from
 *          the previous release. 'n' represents the n'th
 *          version.
 *
 *          Clients should carefully consider the implications
 *          of new versions as external interfaces and behaviour
 *          may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This changes when:
 *           - a new set of functionality is to be added, eg,
 *
     implementation of a new W3C specification.
 *           - API or behaviour change.
 *           - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *          drop applied to a specific release and contains
 *          fixes for defects reported. It maintains compatibility
 *          with the release and contains no API changes.
```

```
 *          When missing, it designates the final and complete
 *          development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *          a specific release. D01 is the first development drop
 *          of a new release.
 *
 *          Development drops are works in progress towards a
 *          compeleted,
final release. A specific development drop
 *          may not completely implement all aspects of a new
 *          feature, which may take several development drops to
 *          complete. At the point of the final drop for the
 *          release, the D suffix will be omitted.
 *
 *          Each 'D' drops can contain functional enhancements as
 *          well as defect fixes. 'D' drops may not be as stable as
 *          the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
     if ((new String("@version.DEVELOPER@")).length() == 0)
       return 0;
     else
       return Integer.parseInt("@version.DEVELOPER@");
  } catch (NumberFormatException nfe) {
        return 0;
  }
 }
}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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Found in path(s):
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*/

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/GetOptsException.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MarkerInstruction.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ja_JP_A.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LastCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/BitArray.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/WrappedRuntimeException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorText.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplate.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMAxisIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DefaultErrorHandler.java
*

/xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartXPath.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalParamDecl.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/NotEquals.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AlternativePattern.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_es.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionScript.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectPool.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/ProcessorVersion.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/lib/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnparsedEntityUriCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/FilterIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Constants.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/WrongParserException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/KeyCall.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/DecimalToRoman.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SourceLoader.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprWalker.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathResultImpl.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XStringForChars.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_cy.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectStack.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyManager.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathProcessorException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemAttribute.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathNSResolverImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CollatorFactoryBase.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyRefIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringFactoryDefault.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_CN.java
*
/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XBooleanStatic.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOM3TreeWalker.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_es.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/VariableRef.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceListenerEx.java

* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundleBase.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/StringType.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StringLengthCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/MissingOptArgException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerClient.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstringAfter.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/XPathException.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToSAXHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/XMLChar.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorOutputElem.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/dom2dtm/DOM2DTMdefaultNamespaceDeclarationNode.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ru.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/EndSelectionEvent.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Comment.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MultiHashtable.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SystemIDResolver.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Parameter.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_hu.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FloorCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/TemplateSubPatternAssociation.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMErrorHandlerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMOrder.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/SQLErrorDocument.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gte.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ApplyTemplates.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Key.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_fr.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Lexer.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_hu.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPath.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorImport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Include.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_sk.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/LocPathIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncStartsWith.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Step.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/util/IntegerArray.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceListenerEx3.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/Counter.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/DecimalFormatting.java
*
 /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/URI.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Mod.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ThreadControllerWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/OneStepIteratorForward.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ContainsCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TopLevelElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/MethodResolver.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ja.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValue.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Whitespace.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/IntArrayWrapper.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/CompareGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/NamespaceSupport2.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/XPathFunctionResolverImpl.java

* /xalan-2-7-2-sources-jar/org/apache/xml/utils/IntStack.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncPosition.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/BooleanExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/LongArrayWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/WhiteSpaceInfo.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorTemplateElem.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Serializer.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_fr.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh_CN.java
*
/xalan-2-7-2-sources-jar/org/apache/xpath/axes/ChildIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_sv.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncContains.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeList.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_de.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemChoose.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMAxisIteratorBase.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SystemIDResolver.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnionPathExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Mult.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_it.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java
*
/xalan-2-7-2-sources-jar/org/apache/xpath/axes/SelfIteratorNoPredicate.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TemplatesImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTSchema.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathExpressionImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionVisitor.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CompilerException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/PrintTraceListener.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMDefaultBase.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/Utils.java
*
/xalan-2-7-2-sources-jar/org/apache/xpath/axes/UnionChildIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLReaderManager.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/AdaptiveResultTreeImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_sl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/serialize/SerializerUtils.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemNumber.java
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```
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* limitations under the License.
*/
// Proprietary
/** The 'document-location()' id (Proprietary). */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java
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```
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-->
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html

* /xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
No license file was found, but licenses were detected in source scan.

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* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
*
*/

package org.apache.xalan.xsltc.compiler;

```
import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
    int last;

    void initialize() {
      last = -1;
    }

    static boolean isWhitespace(int c) {
      return (c == ' ' || c == '\t' || c == '\r' || c == '\n'  || c == '\f');
    }

    /**
     * If symbol is not followed by '::' or '(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
      // Peek in the input buffer without changing the internal state
      int index = yy_buffer_index;

      // Skip whitespace
      while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
      }

      // If end of buffer, can't disambiguate :(
      if (index >= yy_buffer_read) {
        // Can't
 disambiguate, so return as symbol
        return new Symbol(ss);
      }

      // Return symbol if next token is '::' or '('
      return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
          yy_buffer[index] == '(') ?
          newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
```

```
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
   switch (last) {
   case -1:    // first token
   case sym.ATSIGN:
   case sym.DCOLON:
   case sym.LPAREN:
   case sym.LBRACK:
   case sym.COMMA:
   case sym.AND:
   case sym.OR:
   case sym.MOD:
   case sym.DIV:
   case sym.MULT:
   case sym.SLASH:
    case sym.DSLASH:
   case sym.VBAR:
   case sym.PLUS:
   case sym.MINUS:
   case sym.EQ:
   case sym.NE:
   case sym.LT:
   case sym.LE:
   case sym.GT:
   case sym.GE:
      return newSymbol(sym.QNAME, yytext());
   }
   return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
   switch (last) {
   case -1:    // first token
   case sym.ATSIGN:
   case sym.DCOLON:
   case sym.LPAREN:
   case sym.LBRACK:
   case sym.COMMA:
   case sym.AND:
   case sym.OR:
   case sym.MOD:
   case sym.DIV:
```

```
            case sym.MULT:
             case sym.SLASH:
            case sym.DSLASH:
            case sym.VBAR:
            case sym.PLUS:
            case sym.MINUS:
            case sym.EQ:
            case sym.NE:
            case sym.LT:
            case sym.LE:
            case sym.GT:
            case sym.GE:
               return newSymbol(sym.STAR);
            }
            return newSymbol(sym.MULT);
        }

        Symbol newSymbol(int ss) {
            last = ss;
            return new Symbol(ss);
        }

        Symbol newSymbol(int ss, String value) {
            last = ss;
            return new Symbol(ss, value);
        }

        Symbol newSymbol(int ss, Long value) {
            last = ss;
            return new Symbol(ss, value);
        }

        Symbol newSymbol(int ss, Double value) {
            last = ss;
            return new Symbol(ss, value);
        }
%}

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}
```

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-
\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-
\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-
\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-
\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-
\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-
\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-
\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-
\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-
\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-
\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-
\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-
\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-
\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-
\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-
\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-
\u0ED9\u0F20-\u0F29]

```
Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"_"|{NCNameStartChar})({NCNameChar})*

NCNameChar={Letter}|{Digit}|"."|"-"|"_"|{CombiningChar}|{Extender}|{NCNameStartChar}| \u00B7 | [\u0300-
\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-
\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-
\uFFFD]
 | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*"                 { return disambiguateStar(); }
"/"                 { return newSymbol(sym.SLASH); }
"+"                 { return newSymbol(sym.PLUS); }
"-"                 { return newSymbol(sym.MINUS); }
"div"               { return disambiguateOperator(sym.DIV); }
"mod"               { return disambiguateOperator(sym.MOD); }
"::"                { return newSymbol(sym.DCOLON); }
","                 { return newSymbol(sym.COMMA); }
"@"                 { return newSymbol(sym.ATSIGN); }
".."                { return newSymbol(sym.DDOT); }
"|"                 { return newSymbol(sym.VBAR); }
"$"                 { return newSymbol(sym.DOLLAR); }
"//"                { return newSymbol(sym.DSLASH); }
"="                 { return newSymbol(sym.EQ);
 }
"!="                { return newSymbol(sym.NE); }
"<"                 { return newSymbol(sym.LT); }
">"                 { return newSymbol(sym.GT); }
"<="                { return newSymbol(sym.LE); }
">="                { return newSymbol(sym.GE); }
"id"                { return disambiguateAxisOrFunction(sym.ID); }
"key"               { return disambiguateAxisOrFunction(sym.KEY); }
"text()"            { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()"  { return newSymbol(sym.TEXT); }
"node()"            { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()"  { return newSymbol(sym.NODE); }
"comment()"         { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
```

```
"processing-instruction()"              { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"
                { return disambiguateOperator(sym.OR); }
"and"               { return disambiguateOperator(sym.AND); }
"child"             { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"          { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"           { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"     { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"         { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"   { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"          { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"    { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"          { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"             { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"          { return disambiguateAxisOrFunction(sym.PRECEDING);
 }
"preceding-sibling"    { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"               { return disambiguateAxisOrFunction(sym.SELF); }
"["                 { return newSymbol(sym.LBRACK); }
"]"                 { return newSymbol(sym.RBRACK); }
"("                 { return newSymbol(sym.LPAREN); }
")"                 { return newSymbol(sym.RPAREN); }
"<PATTERN>"           { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"        { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"            { return newSymbol(sym.Literal,
      yytext().substring(1, yytext().length() - 1)); }
\'[^\']*\'            { return newSymbol(sym.Literal,
      yytext().substring(1, yytext().length() - 1)); }
{Digit}+              { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)?   { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+           { return newSymbol(sym.REAL,
 new Double(yytext())); }
"."                 { return newSymbol(sym.DOT); }
({NCName}":")?{NCName}   { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"*"       { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"      { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]           { /* ignore white space. */ }
.                   { throw new Exception(yytext()); }
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
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*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
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* limitations under the License.
*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
* Administrative class to keep
 track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.  This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
```

```
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

 /**
  * Get the basic version string for the current Xalan release.
  * Version String formatted like
  * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?

          ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
  System.out.println(getVersion());
 }

 /**
  * Name of product: Xalan.
  */
 public static String getProduct()
 {
  return "Xalan";
 }

 /**
  * Implementation Language: Java.
  */
 public static String getImplementationLanguage()
 {
  return "Java";
```

```
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *         significant, externally apparent enhancement from
 *         the previous release. 'n' represents the n'th
 *         version.
 *
 *         Clients should carefully consider the implications
 *         of new versions as external interfaces and behaviour
 *         may have changed.
 */
public static int getMajorVersionNum()
{
  return
@version.VERSION@;

}

/**
 * Release Number.
 * Release number. This changes when:
 *           - a new set of functionality is to be added, eg,
 *             implementation of a new W3C specification.
 *           - API or behaviour change.
 *           - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *         drop applied to a specific release and contains
 *         fixes for defects reported. It maintains compatibility
 *         with the release and contains no API changes.
 *         When missing, it designates the final and complete
 *         development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return @version.MINOR@;
}
```

```
/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *
       a specific release. D01 is the first development drop
 *         of a new release.
 *
 *         Development drops are works in progress towards a
 *         compeleted, final release. A specific development drop
 *         may not completely implement all aspects of a new
 *         feature, which may take several development drops to
 *         complete. At the point of the final drop for the
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
     if ((new String("@version.DEVELOPER@")).length() == 0)
       return 0;
     else
       return Integer.parseInt("@version.DEVELOPER@");
  } catch (NumberFormatException nfe) {
        return 0;
  }
 }
}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
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```

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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
 */

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java

1.647 botocore 1.27.96

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1.653 aws-aws-sdk-go-v2-internal-configsources 1.1.12

1.653.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
```

```
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
```

```
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
```

```
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
```

```
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string
```

```
// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
```

```
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
```

```
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string
```

```
 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
```

```
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
```

```
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
```

```
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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```
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  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
```

```
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:  "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.654 aws-aws-sdk-go-v2 1.15.7

1.654.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
```

```
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string
```

```
 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
```

```
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
```

```
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
```

```
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
```

```
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
```

```
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name
```

```
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
```

```
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
```

```
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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APPENDIX: How to apply the Apache License to your work.

```
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
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    same "printed page" as the copyright notice for easier
    identification within third-party archives.

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.655 aws-aws-sdk-go-v2-service-internal-endpoint-discovery 1.7.6

1.655.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
```

```
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
```

```
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
```

```
  strategy:
    matrix:
      python-version: [3.9]

  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
```

```
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string
```

```
 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name
 (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
```

```
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
```

```
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
```

```
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:  "license-manager",
```

```
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
```

```
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"

```
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.656 aws-aws-sdk-go-v2-service-timestreamwrite 1.13.6

1.656.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
```

```
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
```

```
 return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
```

```
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
```

```
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
```

```
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string
```

```
 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
```

```
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
```

```
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name
    (ARN) of the checkout license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string
```

```
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
```

```
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
```

```
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:  "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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END OF TERMS AND CONDITIONS

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To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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```
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 distributed under the License is distributed on an "AS IS" BASIS,
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 limitations under the License.
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
```

```
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "grafana",
```

```
 OperationName: "AssociateLicense",
 }
}
```

1.657 aws-aws-sdk-go-v2-service-kinesis 1.15.7

1.657.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
```

```
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
```

```
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
```

```
        with:
          path: new-ref
          fetch-depth: 0
      - name: Get Diff
        run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
      - name: Get Target Files
        run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
      - name: Checkout scancode
        uses: actions/checkout@v2
        with:
          repository: nexB/scancode-toolkit
          path: scancode-toolkit
          fetch-depth: 1
      - name: Set up Python ${{ matrix.python-version }}
         uses: actions/setup-python@v2
        with:
          python-version: ${{ matrix.python-version }}
      # ScanCode
      - name: Self-configure scancode
        working-directory: ./scancode-toolkit
        run: ./scancode --help
      - name: Run Scan code on target
        run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
      - name: Run Scan code on pr ref
        run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
      # compare
      - name: License test
        run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
```

```
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
```

```
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
    LicenseName *string

    // Product name.
    //
    // This member is required.
    ProductName *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // Date and time range during which the license is valid, in ISO8601-UTC format.
    //
    // This member is required.
    Validity *types.DatetimeRange

    //
    Information about the license.
    LicenseMetadata []types.Metadata

    noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
```

```
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
```

```
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}
```

```
type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
```

```
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

```
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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
```

```
if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.658 aws-aws-sdk-go-v2-service-cloudwatchlogs 1.15.8

1.658.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
```

```
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
```

```
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
```

```
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]
```

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
```

```
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
```

```
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {
```

```
// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
```

```
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
```

```
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name
 (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
```

```
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:       region,
 ServiceID:    ServiceID,
 SigningName:  "license-manager",
 OperationName: "GetLicense",
 }
}
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
```

```
//
// * Fingerprint
//
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
```

```
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {
```

```
// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
```

```
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.659 aws-aws-sdk-go-v2 1.11.8

1.659.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
```

```
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
```

```
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
```

```
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
```

```
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
```

```
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
```

```
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
```

```
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:  "grafana",
```

```
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
```

```
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
```

```
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
```

```
err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
```

```
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.660 aws-aws-sdk-go 1.16.5

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1.661 influxdata-influxdb-observability-otel2influx 0.2.22

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1.662 aws-aws-sdk-go-v2 1.9.2

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 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 //
 This member is required.
 SourceVersion *string
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if
 err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
```

```
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string
}

type GetLicenseOutput struct {

 // License details.
 License *types.License
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil
 {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
 func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
```

```
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * KeyFingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
addOperationCheckoutLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string
}

type CheckoutLicenseOutput struct {

 // Checkout type.
```

```
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata
middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack);
 err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:
       region,
  ServiceID:     ServiceID,
```

```
 SigningName:   "license-manager",
 OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata
}
```

```
type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err
 != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * KeyFingerprint
 //
 // * Issuer
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
}
```

```
type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
```

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package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
```

```
 NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 //
 Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
}
if
err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
```

```
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string
```

```
 // License beneficiary.
 Beneficiary
 *string
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err =
 addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
```

1.663 aws-aws-sdk-go-v2 1.46.0

1.663.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32
```

```
 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
```

```
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {
```

```
// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string
```

```
 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
```

```
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
```

```
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
```

```
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
```

```
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {
```

```
 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:        region,
 ServiceID:     ServiceID,
 SigningName:   "grafana",
 OperationName: "AssociateLicense",
 }
}
```

1.664 aws-aws-sdk-go-v2-internal-endpoints 2.4.6

1.664.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
```

```
//
*
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return
```

```
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {
```

```
// Unique, case-sensitive identifier that you
provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
```

```
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
```

```
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
```

```
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string
```

```
 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
```

```
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
```

```
 SigningName:   "license-manager",
 OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
```

```
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string
```

```
// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
```

```
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
```

```
if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.665 aws-aws-sdk-go-v2-aws-protocol-eventstream 1.4.2

1.665.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string
```

```
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
```

```
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
```

```
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
```

```
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]
```

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
```

```
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
```

```
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {
```

```
// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
```

```
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
```

```
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name
 (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
```

```
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:       region,
 ServiceID:    ServiceID,
 SigningName:  "license-manager",
 OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
```

```
//
// * Fingerprint
//
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
```

```
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {
```

```
// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
```

```
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.666 influxdata-influxdb-observability-influx2otel 0.2.21

1.666.1 Available under license :

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1.667 aws-aws-sdk-go-v2 1.9.6

1.667.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
```

```
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
```

```
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]
```

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
```

```
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {
```

```
// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
```

```
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:  "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
```

```
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
```

```
 SigningName:   "license-manager",
 OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string
```

```
 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
```

```
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.668 aws-aws-sdk-go-v2 1.12.5

1.668.1 Available under license :

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {
```

```
// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
```

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1.669 influxdata-influxdb-observability-common 0.2.22

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1.670 aws-aws-sdk-go-v2 1.16.7

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```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {
```

```
 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
```

```
if err != nil {
 return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
```

```
// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
```

```
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
```

```
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
```

```
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
```

```
identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
```

```
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.671 aws-aws-sdk-go-v2-internal-ini 1.3.12

1.671.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string
```

```
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
```

```
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
```

```
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
```

```
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]
```

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
```

```
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
```

```
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {
```

```
// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
```

```
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
```

```
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name
 (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:       region,
 ServiceID:    ServiceID,
 SigningName:  "license-manager",
 OperationName: "GetLicense",
 }
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
```

```
//
// * Fingerprint
//
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
```

```
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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package grafana

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {
```

```
// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
```

```
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.672 aws-aws-sdk-go-v2 1.12.6

1.672.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
```

```
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
```

```
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
```

```
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
```

```
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
```

```
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
```

```
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
```

```
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:  "grafana",
```

```
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}
```

```
type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
AWS SDK for Go
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Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
```

```
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
```

```
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
```

```
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {
```

```
 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:        region,
 ServiceID:     ServiceID,
 SigningName:   "grafana",
 OperationName: "AssociateLicense",
 }
}
```

1.673 x-text 1.17.9

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1.681 ruby 2.7.2p137

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1.683 elfutils 0.693

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1.688 nats 1.16.0

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1.696 jmespath 1.0.1

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1.697 gophercloud 0.25.0

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Step 5: Writing the Code
==========

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

###
A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
*
https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3.
 Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details
 of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull
 Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of
 merge conflicts.

Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request.
Pull Requests will have to be merged in a specific order since there is a
defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase
 all child
 Pull Requests based off of the parent.

The choice of method is up to you.

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

```
package RESOURCE

import (
 "github.com/gophercloud/gophercloud"
 "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
 gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
 commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
 commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
 gophercloud.ErrResult
```

```
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
 commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
 pagination.LinkedPageBase
}

// IsEmpty determines whether
 or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
 resources, err := ExtractResources(r)
 return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
 var s struct {
  Links struct {
   Next     string `json:"next"`
   Previous string `json:"previous"`
  } `json:"links"`
 }
 err := r.ExtractInto(&s)
 if err != nil {
  return "", err
 }
 return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
 var s struct {
  Resources []Resource `json:"resources"`
 }
 err := (r.(ResourcePage)).ExtractInto(&s)
 return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
 var s struct {
```

```
 Resource *Resource `json:"resource"`
 }
 err := r.ExtractInto(&s)
 return
 s.Resource, err
}
```

Contributor Tutorial
==========

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 6: Code Review
==========

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:

   a. Unit Tests

   b. Code Formatting checks

   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should

ensure those are fixed, too.

Coveralls

If Coveralls reports a decrease in test coverage,
check and make sure you have
provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and
ignorable.

OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible
that the acceptance tests you've included were not run. When this happens,
a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources
required to run the acceptance tests. When this happens, it is essential
that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment
requesting a code review. If you don't explicitly ask for a code review, a
core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure
about, please ask for help. We're more than happy to provide advice.

During the code review process, a
core member will review the code you've
submitted and either request changes or request additional information.
Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md)
for conventions used.

2. Requests for additional information about the validity of something. This
might happen because the included supporting service code URLs don't have
enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your
commits. Please only add new commits to the Pull Request. This is to help the

code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before
 merging.

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).
package testing

import (
 "fmt"
 "net/http"
 "testing"

 "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
 th "github.com/gophercloud/gophercloud/testhelper"
 "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`

```
// UpdateRequest provides the input to as Update request.
const UpdateRequest = `
{
}
`

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the
 slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "GET")
  th.TestHeader(t, r, "Accept", "application/json")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

  w.Header().Set("Content-Type", "application/json")
  w.WriteHeader(http.StatusOK)
  fmt.Fprintf(w, ListResult)
 })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "GET")
  th.TestHeader(t,
 r, "Accept", "application/json")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
```

```
  w.Header().Set("Content-Type", "application/json")
  w.WriteHeader(http.StatusOK)
  fmt.Fprintf(w, GetResult)
 })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "POST")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
  th.TestJSONRequest(t, r, CreateRequest)

  w.WriteHeader(http.StatusCreated)
  fmt.Fprintf(w, GetResult)
 })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "DELETE")
  th.TestHeader(t, r,
 "X-Auth-Token", client.TokenID)

  w.WriteHeader(http.StatusNoContent)
 })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "PATCH")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
  th.TestJSONRequest(t, r, UpdateRequest)

  w.WriteHeader(http.StatusOK)
  fmt.Fprintf(w, UpdateResult)
 })
}
package RESOURCE

import (
 "github.com/gophercloud/gophercloud"
 "github.com/gophercloud/gophercloud/pagination"
```

```
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
 ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
 q, err := gophercloud.BuildQueryString(opts)
 return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
 url := listURL(client)
 if opts != nil {
  query, err := opts.ToResourceListQuery()
  if err != nil {
   return pagination.Pager{Err: err}
  }
  url += query
 }
 return pagination.NewPager(client, url, func(r pagination.PageResult) pagination.Page {
  return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
 })
}

//
 Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
 resp, err := client.Get(getURL(client, id), &r.Body, nil)
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
 ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
```

```
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
 return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
 b, err := opts.ToResourceCreateMap()
 if err != nil {
  r.Err = err
  return
 }
 resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
  OkCodes:
 []int{201},
 })
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
 resp, err := client.Delete(deleteURL(client, id), nil)
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
 ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
 return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
 b, err := opts.ToResourceUpdateMap()
```

```
 if
 err != nil {
  r.Err = err
  return
 }
 resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
  OkCodes: []int{200},
 })
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}
package testing

import (
 "testing"

 "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
 "github.com/gophercloud/gophercloud/pagination"
 th "github.com/gophercloud/gophercloud/testhelper"
 "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleListResourcesSuccessfully(t)

 count := 0
 err := resources.List(client.ServiceClient(), nil).EachPage(func(page pagination.Page) (bool, error) {
  count++

  actual, err := resources.ExtractResources(page)
  th.AssertNoErr(t, err)

  th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

  return true, nil
 })
 th.AssertNoErr(t, err)
 th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleListResourcesSuccessfully(t)

 allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
```

```
 th.AssertNoErr(t, err)
 actual, err := resources.ExtractResources(allPages)
 th.AssertNoErr(t,
 err)
 th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleGetResourceSuccessfully(t)

 actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestCreateResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleCreateResourceSuccessfully(t)

 createOpts := resources.CreateOpts{
  Name: "resource two",
 }

 actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestDeleteResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleDeleteResourceSuccessfully(t)

 res := resources.Delete(client.ServiceClient(), "9fe1d3")
 th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleUpdateResourceSuccessfully(t)

 updateOpts
 := resources.UpdateOpts{
  Description: "Staging Resource",
```

```
 }

 actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 4: Acceptance Testing
==========================

If we haven't started working on the feature or bug fix, why are we talking
about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code
in a working OpenStack environment. Please do not submit code which you have
only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers
from all over the world use Gophercloud in many different projects. If you
submit code which is untested, it can cause these projects to break or become
unstable.

And, to be frank, submitting untested code will inevitably cause someone else
to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of
documentation [here](/acceptance) to help you build your own small OpenStack
environment for testing.

---

Once you've confirmed you are able to test your code, proceed to
[Step 5](step-05-pull-requests.md) to (finally!)
 start working on a Pull
Request.
```

Step 7: Congratulations!
==========

At this point your code is merged and you've either fixed a bug or added a new
feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your
patience as well as the time you have taken for working on this. You've made
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Step 1: Read Our Guides
==========

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed
document which describes the different ways you can contribute to Gophercloud
and how to get started. This tutorial you're reading is very similar to that
guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used
in the Gophercloud project.

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).
Step 3: Code Hunting
==========

If you plan to submit a feature or bug fix to Gophercloud, you must be
able to prove your code correctly works with the OpenStack service in
question.

Let's use the following issue as an example:
https://github.com/gophercloud/gophercloud/issues/621.
In this issue, there's a request being made to add support for
`availability_zone_hints` to the `networking/v2/networks` package.
Meaning, we want to change:

```go
```

```
type Network struct {
 ID          string   `json:"id"`
 Name        string   `json:"name"`
 AdminStateUp bool    `json:"admin_state_up"`
 Status      string   `json:"status"`
 Subnets     []string `json:"subnets"`
 TenantID    string   `json:"tenant_id"`
 Shared      bool     `json:"shared"`
}
```

to look like

```go
type Network struct {
 ID                  string   `json:"id"`
 Name                string   `json:"name"`
 AdminStateUp        bool     `json:"admin_state_up"`
 Status
             string   `json:"status"`
 Subnets             []string `json:"subnets"`
 TenantID            string   `json:"tenant_id"`
 Shared              bool     `json:"shared"`

 AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't
 useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code

itself.

Continuing on with using #621 as an example, we can find the definition of
`availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the
`Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find
and it's simple to understand. However, there will be times when proving the
implementation in the service code is difficult. Make no mistake, this is _not_
fun work. This can sometimes be more difficult than
 writing the actual patch
for Gophercloud. However, this is an essential step to ensuring the feature
or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different
ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located
 in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on.
 Review all results to gain a good understanding of everywhere the field is
 used.

* When adding a field, look for an
 object model or a schema of some sort.

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance
Testing.

Step 2: Create an Issue
==========

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included
 in Gophercloud. We don't
want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613

* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required
 for _issues_, but it's usually a good idea to provide
them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.
package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}

```
func deleteURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
```

1.698 miekg-dns 1.1.48

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1.699 sarama 1.34.1

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1.700 pflag 1.0.5

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1.702 gopkg.in-inf 0.9.1

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1.703 go-uber-org-multierr 1.6.0

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